IP CCTV Solution

Central Management System

User Manual

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FC CE

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received including interference that may cause undesired operation.

Safety Instructions

Warnings & Cautions

Please read the following safety warnings and keep this manual in a place which you can read whenever you need.

1. Keep the Video Servers away from water, wet, hot, flammable area or with heavy moisture
2. Check the existing electric environment if it's applicable (90V~240V AC) before use
3. Avoid to operate it in high temperature environment
4. Please put the Video Server and Hub in a flat stable place to operate
5. Do not disassemble the product arbitrarily.

	WARNING	This symbol indicates that personal injury may occur or the product may be damaged when you fail to follow the given instruction
	CAUTION	This symbol indicates that property loss may occur or the product may malfunction when you fail to follow the given instruction

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Chapter 1 Overview

Introduction

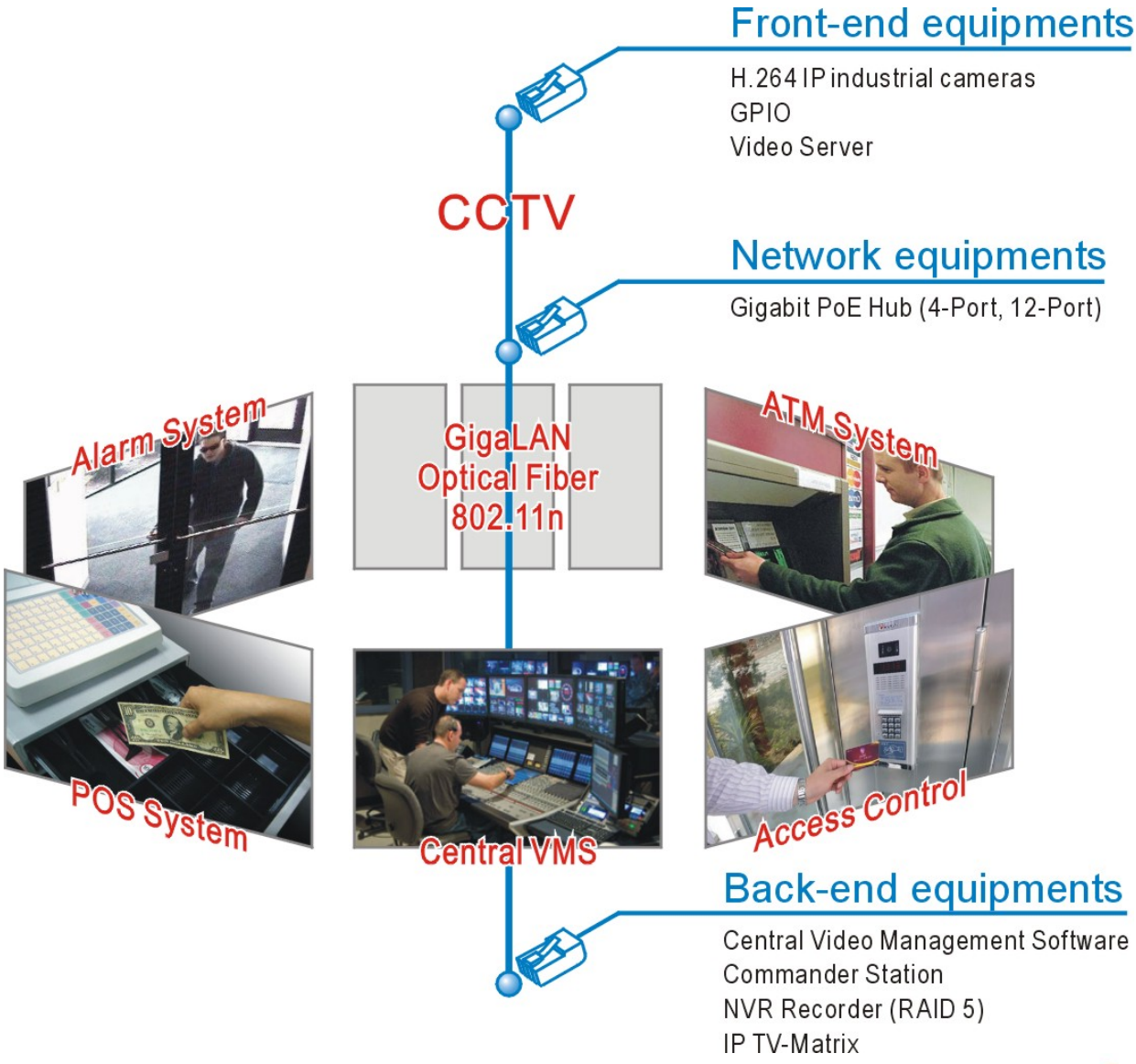
hank you for using **Telexper IP CCTV Solution**!

Please remember that all of our devices provide you the easiest configuration and fastest installation than other products, and they should be placed under the IP sharing device that we recommend:

Router with at least Gigabit IEEE802.3ab

or **IP Sharing** supports DHCP

We thank you again for using our products!



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The **Telexper IP CCTV Solution** includes below major components:

I. Commander Station:

With Telexper's **IP components** (Video Server, Network Video Recorder, Video Decoder, Network Alarm GPIO expansion module, Gigabit POE HUB) and built-in **Central Management Server software**, user can monitor and control Surveillance devices via the Ethernet LAN。

1. Basic Series: 16-48ch

nCS-16 : 16ch CMS Station

nCS-32 : 32ch CMS Station

nCS-48 : 48ch CMS Station

2. Ultimate Series: 64-2048ch

nCS-64 : 64ch CMS Station

nCS-128 : 128ch CMS Station

nCS-256 : 256ch CMS Station

nCS-512 : 512ch CMS Station

nCS-1024 :1024ch CMS Station

nCS-2048 :2048ch CMS Station

II. Hybrid Commander Station: Except the internal 8/16 Channel video connection of the traditional cameras, Hybrid system can also control the extra IP cameras and the Video Servers.

nHybrid-16: 16ch Hybrid Station

nHybrid-32: 32ch Hybrid Station

nHybrid-48: 48ch Hybrid Station

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Product Comparison Chart

	CMS-Lite Free Software (16ch)	Commander Station		Hybrid Commander Station
		Basic	Ultimate	
Max number of IP Camera	**16**	**48**	**2048**	**48** (Support 8/16ch analog)
Recording on the current station	✗	✓	✗	✓
Recording on NVR	✓	✓	✓	✗
Support NVS-Slim	✓	✗	✗	✓
CMS Software: Central Management Server Software is a dedicated application allowing users to monitor and control Surveillance devices via the Ethernet LAN. It works with the H.264 Video Server which supports POE (Power over Ethernet). The Video Server derives its power from the Gigabit POE HUB through the RJ-45 so the user does not need to provide the DC power. Also the Network Video Server (POE version) provides DC 12V output for the cameras. You can connect and control over unlimited Video Servers at the best performance in cost and time.				
Smart Search	✗	✓	✓	✓
CD/DVD Burner	✗	✓	✓	✓
Remote View Software	✗	✓	✓	✓
Local View Client (LVC) Software: Connects to Commander Stations and supports live view and playback functions.	✗	✓	✓	✓

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IP Components: Refer to Ch2 Hardware Introduction for details

	Support by Commander Station	Support by Hybrid
Network Camera	✓	✓
CCD series (1/3” Sony 520TVL CCD Sensor, NTSC / PAL) Wide Dynamic CCD series (1/3” Sony 520TVL WDRCCD Sensor, NTSC / PAL) VGA IP Camera series (1/4” Micro VGA CMOS Sensor) 1.3Mega Pixel IP Camera series (1/3” CMOS Sensor) 2 Mega Pixel IP Camera series(1/3” CMOS Sensor)		
Video Server	✓	✓
nVS-1P: 1ch H.264 Video Server with POE function nVS-1: 1ch H.264 Video Server nVS-4P: 4ch H.264 Video Server with POE function nVS-4: 4ch H.264 Video Server nVS-16 Slim: 16ch H.264 Video Server		
Gigabit POE Hub	✓	✓
nHub-4P: 4 ports 10/100/1000Base-TX Hub with POE function nHub-12P: 12 ports 10/100/1000Base-TX Hub with POE function		
RS485 Controller	✓	✓
nGPIO: Each device provides the Video Server additional four set of the control unit, could use to connect four different alarm input and out-put devices.		
Video Decoder		
nMD-H: POE Video Decoder with Full/Quad Matrix video display, up to HDTV resolution, included OSD, IR remote control and RS485 device connection.		
Multiple Network Video Server	✓	✗
nVS-32/48/64: high density video encoder		
Video Recorder	✓	✗
nVR-4/8: 4/8 HDDs, support up to max 64 recording channels.ch record available. nVR-15/15Raid: Max support 15 HDDs and 64ch record available, 15 Raid included Disk Array.		

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Features

- Upgrade any Traditional Analogue Camera to the IP CCTV Solution
- H.264 & JPEG Dual-type Codec Design
- No Power Cable to Camera Required
- Less Maintenance Cost than Analogue System and Reduce minimum 50% of Installation Cost
- Up to 30pps @D1 Resolution Display & Recording
- Dynamic & Static IP supported

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Chapter 2 IP Component Hardware Introduction

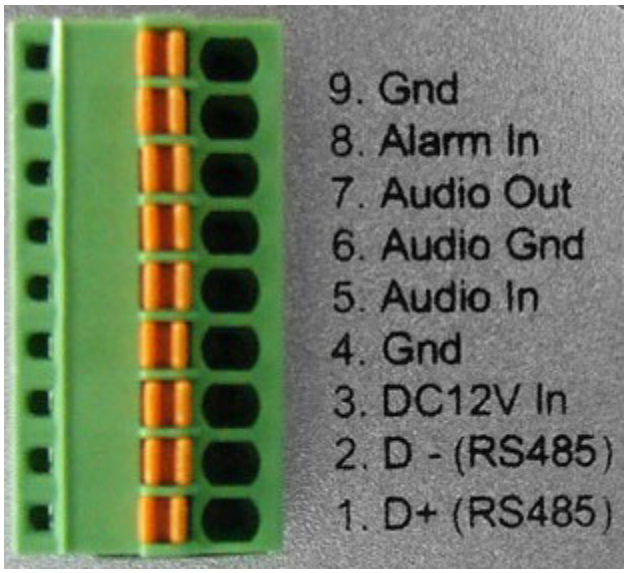
Network IP Cameras

nCam Series: VGA/ 1.3M/ 2M/ High-Resolution CCD/High Speed Dome

Product Front View

Product Rear View

9. Gnd	Gnd
8. Alarm In	Alarm In
7. Audio Out	Alarm Out
6. Audio Gnd	Audio Gnd (for audio in & out)
5. Audio In	Audio In
4. GND	GND
3. DC12V In	DC12V In
2. D-(RS485)	RS485 (D-)
1. D+(RS485):	RS485 (D+)



Notes:

*** For nCam Series cameras, the power is provided via POE by Gigabit POE HUB. Thus, it is not necessary to connect the DC12V In (pin-3) and Gnd (pin-4) from the above illustration.**

*** Please use the CAT-6 LAN cable to connect each Telexper devices.**

*** The effective distance away from the nHub-4P POE Hub is 100 meters.**

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Properties

VGA/ 1.3M/ 2M/ High-Resolution CCD

- CMOS / CCD Sensors, H.264 Compression
- Resolution 640x480 @30fps
  720x480 @30fps
- PoE(Power over Ethernet) Hub to feed power
- Built-in mechanical IR Cut Filter
- Built-in Fixed/Manual/Auto Lens
- IR LED 30~36PCS，IR distance: 20M
- 4 Motion detection in one image
- Linux OS
- H.264/M-JPEG SOC dual compression

High Speed Dome

- 1/4” Sony EXview HAD CCD
- H.264/Motion JPEG (SOC) dual-mode compression
- Two-way audio communication over IP networks
- Built-in hardware motion detection
- Mechanical IR Cut Filter
- Multi streaming
- Resolution of 768 x 494
- IP66 Weather-proof protection housing accessory is available (Outdoor)

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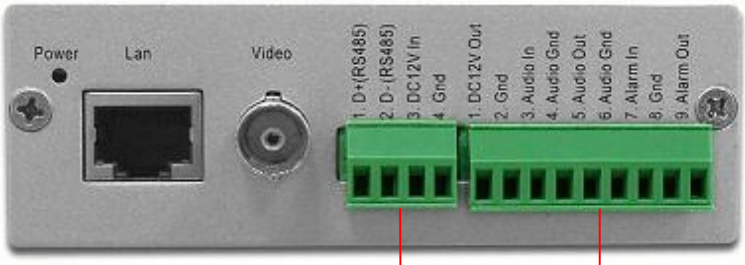
Video Server

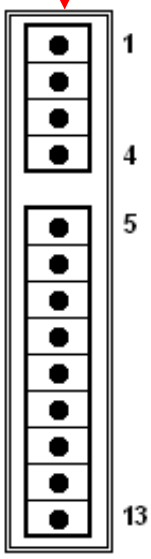
Model: nVS-1P

- Product Front View

- Product Rear View

nVS-1P Back Panel Connector illustration





Back Panel Connector

Pin No.	Print	Definition
1	1. D+ (RS485)	D+ (RS485)
2	2. D- (RS485)	D- (RS485)
3	3. DC12V In	DC12V In (connect when if w/o PoE)
4	4. Gnd	Gnd (only for 3. DC12V In)
5	1. DC12V Out	DC12V Out (only for camera)
6	2. Gnd	Gnd (only for camera)
7	3. Audio In	Audio In
8	4. Audio Gnd	Audio Gnd (only for 3. Audio In)
9	5. Audio Out	Audio Out
10	6. Aundio Gnd	Aundio Gnd (only for 5. Audio Out)
11	7. Alarm In	Alarm In
12	8. Gnd	Gnd
13	9. Alarm Out	Alarm Out

Notes:

* For nVS-1P, the power is provided via POE by Gigabit POE HUB. Thus, it is not necessary to connect the DC12V In (pin-3) and Gnd (pin-4) from the above illustration.
* For nVS-1, nVS-1 doesn't support the POE. Thus, please input the DC12V, 1.2A (min) electric power in the DC12V In (pin-3) and Gnd (pin-4).
* Please use the CAT-6 LAN cable to connect each Telexper devices.
* Please use the 75 Ohm coaxial video cable connecting the camera and the video server.
* The DC12V Output at pin-5 provides the max 8W electric power.
* The nVS-1 Video Server requests the DC12V, 1.2A (min) electric power.
* The effective distance away from the nHub-4P POE Hub is 100 meters.

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- The states of the Power LED

* **Red Color:** Power on when connect with the nHub-4P (Gigabit POE HUB)
* **Red Flashiness:** When the LAN is active

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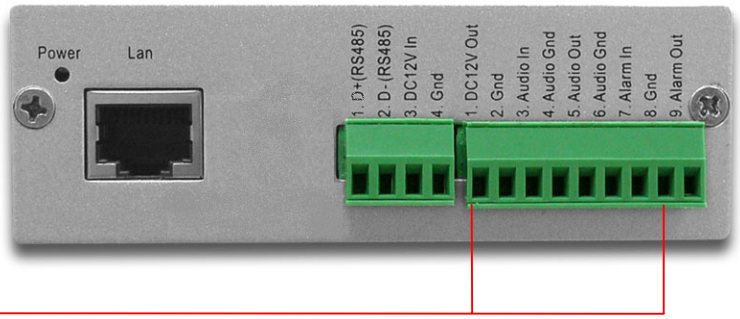
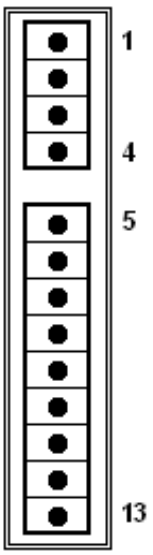
Model: nVS-4P

- Product Front View

- Product Rear View

nVS-4P Back Panel Connector illustration





Back Panel Connector

Pin No.	Print	Definition
1	1. D+ (RS485)	D+ (RS485)
2	2. D- (RS485)	D- (RS485)
3	3. DC12V In	DC12V In (connect when if w/o PoE)
4	4. Gnd	Gnd (only for 3. DC12V In)
5	1. DC12V Out	DC12V Out (only for camera)
6	2. Gnd	Gnd (only for camera)
7	3. Audio In	Audio In
8	4. Audio Gnd	Audio Gnd (only for 3. Audio In)
9	5. Audio Out	Audio Out
10	6. Aundio Gnd	Aundio Gnd (only for 5. Audio Out)
11	7. Alarm In	Alarm In
12	8. Gnd	Gnd
13	9. Alarm Out	Alarm Out

Notes:

*** For nVS-4P, the power is provided via POE by Gigabit POE HUB. Thus, it is not necessary to connect the DC12V In (pin-3) and Gnd (pin-4) from the above illustration.**

*** For nVS-4, nVS-1 doesn't support the POE. Thus, please input the DC12V, 1.2A (min) electric power in the DC12V In (pin-3) and Gnd (pin-4).**

*** Please use the CAT-6 LAN cable to connect each devices.**

*** Please use the 75 Ohm coaxial video cable connecting the camera and the video server.**

*** The DC12V Output at pin-5 provides the max 8W electric power.**

*** The nVS-4 Video Server requests the DC12V, 1.2A (min) electric power.**

*** The effective distance away from the nHub-4P POE Hub is 100 meters.**

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Properties:

1. Upgrade any Traditional Analogue Camera to the IP System
2. H.264 & M-JPEG Dual-type Codec
3. De-centralized & Modularized Design
4. Unlimited Number of Camera Expansion at any time
5. No Power Cable to Camera Required
6. Reduce minimum 50% of Installation Cost
7. Less Maintenance Cost than Analogue System
8. Up to 30fps @D1, 120fps@CIF Display & Recording
9. Multi Video Audio Streaming Design

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Model: nVS-16 Slim

- Product Front View

- Product Rear View

Notes:

*** For nVS-16 Slim, nVS-1 doesn't support the POE. Thus, please input the DC12V, 1.2A (min) electric power in the DC12V In (pin-3) and Gnd (pin-4).**

*** Please use the CAT-6 LAN cable to connect each devices.**

*** Please use the 75 Ohm coaxial video cable connecting the camera and the video server.**

*** The DC12V Output at pin-5 provides the max 8W electric power.**

*** The nVS-16 Slim Video Server requests the DC12V, 1.2A (min) electric power.**

*** The effective distance away from the nHub-4P POE Hub is 100 meters.**

Properties:

1. H.264, Motion-JPEG Video Codec
2. Hot Swap Blade Design
3. Up to 1,920 fps @D1 Resolution Video Stream
4. Up to four (4) Video Streams Simultaneous
5. Redundant Power Modules Design
6. 4U Height, 19" rack mountable cabinet

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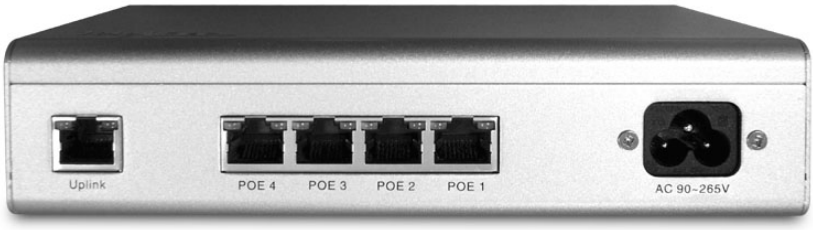
Gigabit POE HUB

Model: nHub-4P

- **Product Front View**



- Uplink : 10/100/1000Base-TX uplink ports for connect with the Wan / LAN
- POE 1-4: 10/100/1000Base-TX with POE injectors
- AC Input: for connected with power cable (Range 90V – 265V)

Model: nHub-12P

- Product Front View

- The states of the LED

* **Double Green lights:** Giga-LAN
* **Left Orange + Right Green light:** Mega-LAN

Notes:

- **Power Provision Max DC48V, 300mA per each port**

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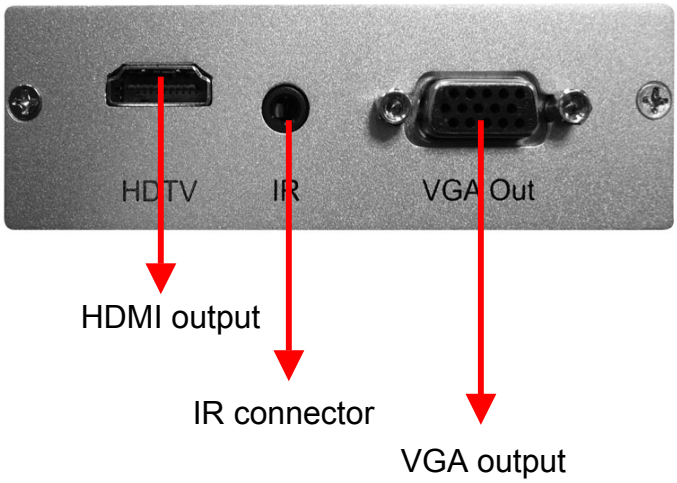
Network Video Decoder (Video Matrix)

Model: nMD-H

- Product Front View

- Product Rear View



Embedded Linux Platform

Properties:

1. Provide H.264 video stream decode service.
2. VGA (D-SUB) and HDMI video output connector.
3. Real-time image decode 30fps, could display by full screen and quad screen.
4. High resolution D1 or CIFx4.
5. Support POE function.
6. CMS could provide monitoring, sequence display, alarm display, and etc functions.
7. Could work independently with only cameras, with or without CMS server.

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RS485 Controller

Product Description

Each device provides the Video Server additional 4 set of the control unit, could use to connect 4 different alarm input and out-put devices.

Installation

Please connect the RS485 controller DT+ (D+) pin to the D+ pin of the Video Server, and also the DT-(D-) pin to the D-pin of the Video Server. The power could provide from the 12V OUT pin of the Video Server, and make sure both of the GND pin connected well to enable the power supply.

Model: nGPIO

- Product Front View

12V IN
GND
TX
RX
DT+
DT-
GND
GND
ALM1
ALM2
ALM3
ALM4

NO1
COM1
NC1
NO2
COM2
NC2
NO3
COM3
NC3
NO4
COM4
NC4

- Product Rear View

DIP Switch adjust table: BIT1~4 for ID, BIT5~7 for Baud Rate, BIT8 for transmission mode.

DIP SWITCH BIT 1,2,3,4	DIP SWITCH BIT 5,6,7
ID00: 0,0,0,0 / ID01: 1,0,0,0	Relay Test : 1,1,1
ID02: 0,1,0,0 / ID03: 1,1,0,0	1200 bps : 0,1,1
ID04: 0,0,1,0 / ID05: 1,0,1,0	2400 bps : 1,0,1
ID06: 0,1,1,0 / ID07: 1,1,1,0	4800 bps : 0,0,1
ID08: 0,0,0,1 / ID09: 1,0,0,1	9600 bps : 1,1,0
ID10: 0,1,0,1 / ID11: 1,1,0,1	19200 bps : 0,1,0
ID12: 0,0,1,1 / ID13: 1,0,1,1	38400 bps : 1,0,0
ID14 0,1,1,1 / ID15: 1,1,1,1	57600 bps : 0,0,0

DIP SWITCH BIT 8 : 0->RS485Mode, 1->RS232Mode

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Properties:

1. Require the DC12V, 350mA input.
2. Provide the additional 4 sets of alarm input and alarm output.

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Multiple Network Video Server

Model: nVS-32 / 48 / 64

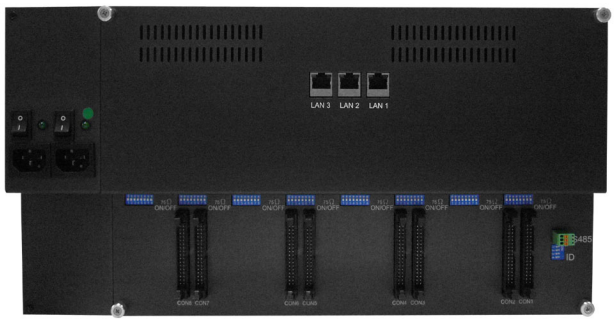
- Product Front View

nVS-32

nVS-48

nVS-64

- Product Rear View



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Product Description:

- H.264, Motion-JPEG Dual Core Image Encoding
- Hot-Swap with Blade design
- MAX 1,920 fps @D1quality video stream
- Multi-Stream concept, each channel transfer more than one stream to different device like nCS, nMD, nVR.
- Dual Power Redundant
- 4U, Height: 19” rack, stackable

Provide the service for 32 / 48 / 64 channels analogue video image encode, change the traditional analogue cameras DVR to digital video stream.

Need to work with CMS server 64 Channels or above.
Support nCS-64 / 128 / 256 channels or above.

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Product Front and Rear Description:

Part of Diagrammatic	Pin or Switch	Product Front or Rear	Description
	None	Front	The light is showing green color while it is been connecting and using RS485 function at this machine rear.
	1: D- (RS485) 2: D+ (RS485) 3: GND	Rear	Please connect the RS485 controller DT+ (D+) pin to the D+ pin of the machine, and also the DT-(D-) pin to the D- pin of the machine.
	O→ Power Off I→ Power On	Rear	The nVS 32/48/64 provide dual power redundant function, please use them at the same time. The lights are showing green color that mean they are working smoothly.
	3 Ports HUB (without POE)	Rear	LAN 1~ LAN 3 are three ports giga Ethernet HUB and they could be connected to other LAN devices together.
	Bit 1, 2, 3 On→ 1 or Off→ 0 (Default: ID 0)	Rear	ID 0: 0, 0, 0 / ID 1: 0, 0, 1 ID 2: 0, 1, 0 / ID 3: 0, 1, 1 ID 4: 1, 0, 0 / ID 5: 1, 0, 1 ID 6: 1, 1, 0 / ID 7: 1, 1, 1 When the system connect over two nVS machines at the same environment, please check to switch the ID.
	Bit 1~ 8 (Default: All On)	Rear	Please use the 75 Ohm coaxial video cable connecting the camera and the video server

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Network Video Recorder

Installation

Connect the nVR to the CMS network; the CMS system will auto detect the nVR devices without any additional configuration.

Record Function

Add the cameras which need to be recorded by nVR, each nVR works independently.

Playback Function

Playback the video films with CMS.

Model: nVR-4 / 8

- Product Front View

nVR-4

nVR-8

Embedded XP Platform

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Properties:

1. Support All Analogues Camera with Telexper Video Server
2. Dual-type Codec (H.264 + JPEG)
3. Dual-Monitor Display Design (Video + E-Map)
4. Pentaplex Design (Live, REC, Playback, Backup, Remote Viewing)
5. Hot-standby REC (Always Recording)*1
6. Smart Motion Activity Search
7. E-mail Alarm (inc HDD Failure) Notification
8. CD or/ DVD Burner Backup (optional)
9. Dynamic & Static IP supported
10. Remote Viewing via 3G handset*2
11. Up to 256 cam CMS available

Notes: 1. Deduct the dead possibility caused by hard disk failure
2. Support "Windows Mobile OS" 3G Handset ONLY

To avoid the risk of explosion from using incompatible battery, please use batteries with the same specifications or recommended by your original supplier or manufacturer. Dispose of used batteries according to the instructions.

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Model: nVR-15 / 15Raid

- Product Front View

-Product Rear View

Embedded XP Platform

Features:

1. XP Embedded OS
2. SATA I, SATA II Hard Drive
3. Auto Partition Allocation
4. Duplex Operation
5. Compatible with VGA, D1, 1.3Mega, 2Megapixel IP Cameras
6. TMSP*1 Protocol Protection Gives Security Data Leak FREE
7. Raid 0/ 1/ 5, Hot Swap (for nVR-15Raid)
8. 19" Rack Mountable Housing
9. Support up to 64 channels/cameras video recording.

Notice: For nVR-15Raid series, please don't 'GREEN' hard disk series. We recommend to use Seagate hard disk.

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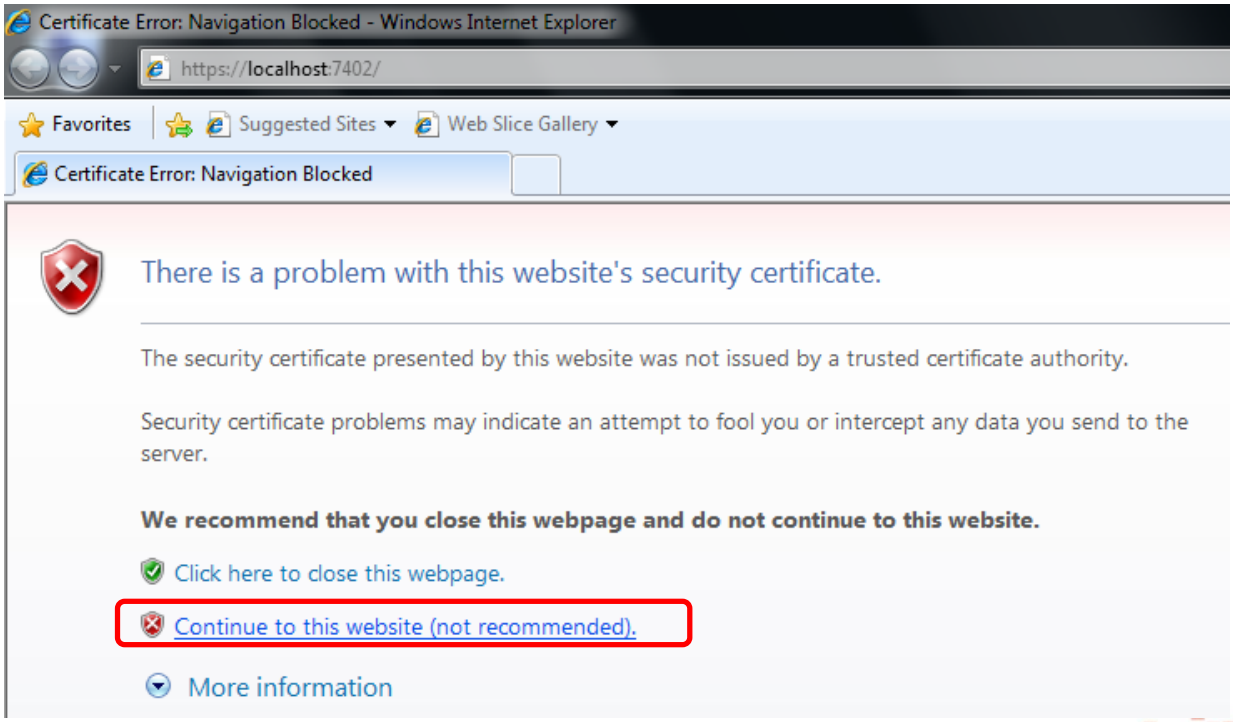
nVR RAID 5 Setup Guide

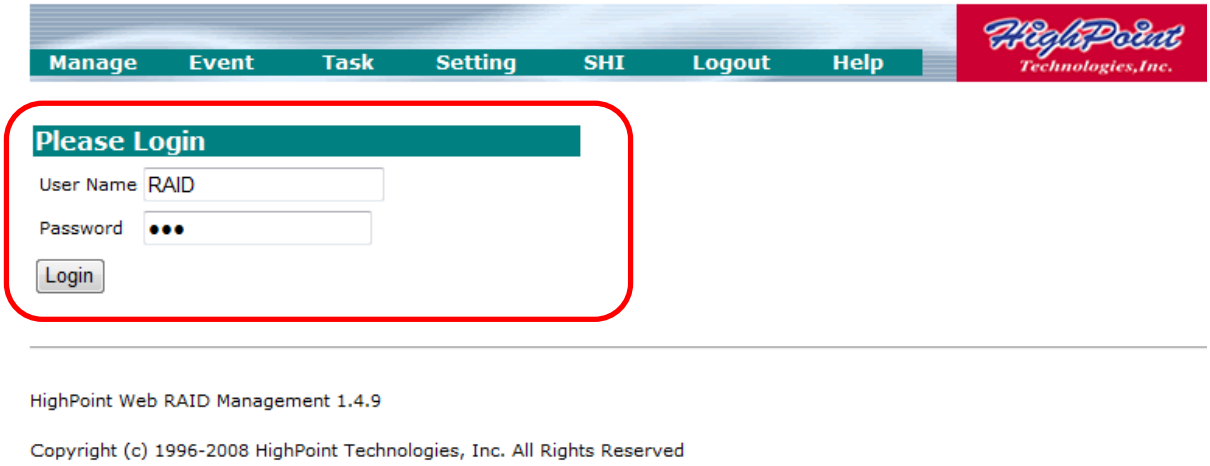
1. Insert HDD to NVR and restart the system. A pop-up window (see picture below) will appear. Click [Terminate] to stop the program.

2. On your system desktop, double-click **HighPoint Web RAID Management** shortcut

3. Internet Explorer will be initiated automatically. Please select "Continue to this website (not recommended)" to continue to the main page of **HighPoint Web RAID Management**.

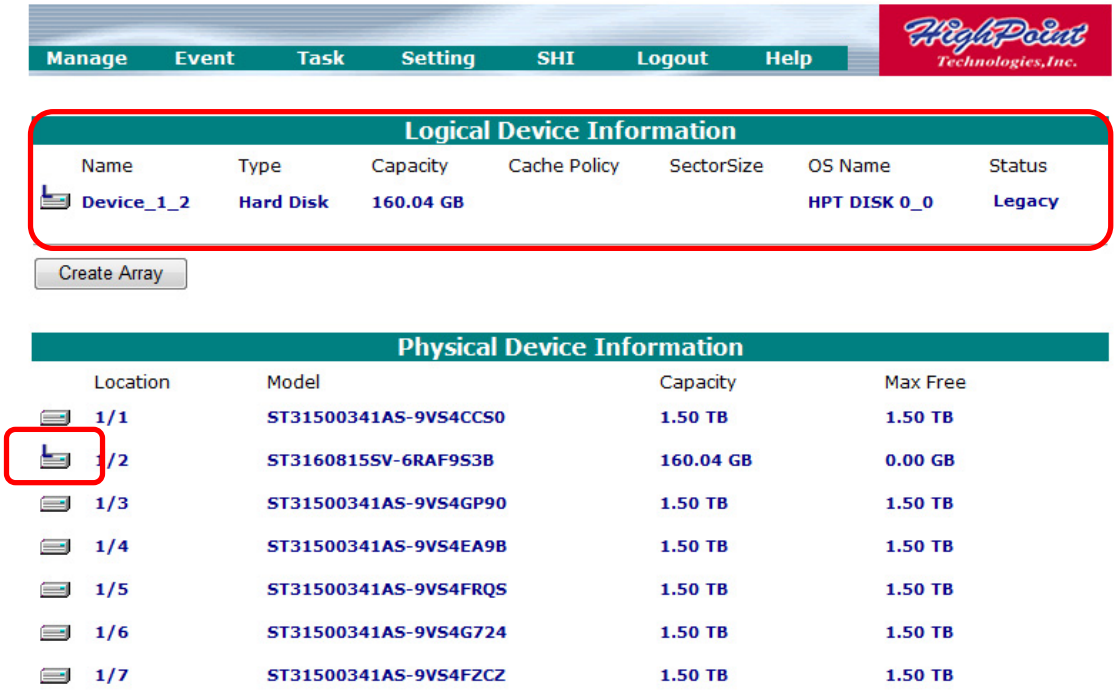

Certificate Error: Navigation Blocked - Windows Internet Explorer
https://localhost:7402/
Favorites
Suggested Sites
Web Slice Gallery
Certificate Error: Navigation Blocked
There is a problem with this website's security certificate.
The security certificate presented by this website was not issued by a trusted certificate authority.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Continue to this website (not recommended).
More information

4. Enter User Name: RAID, Password: hpt, and then click Login.



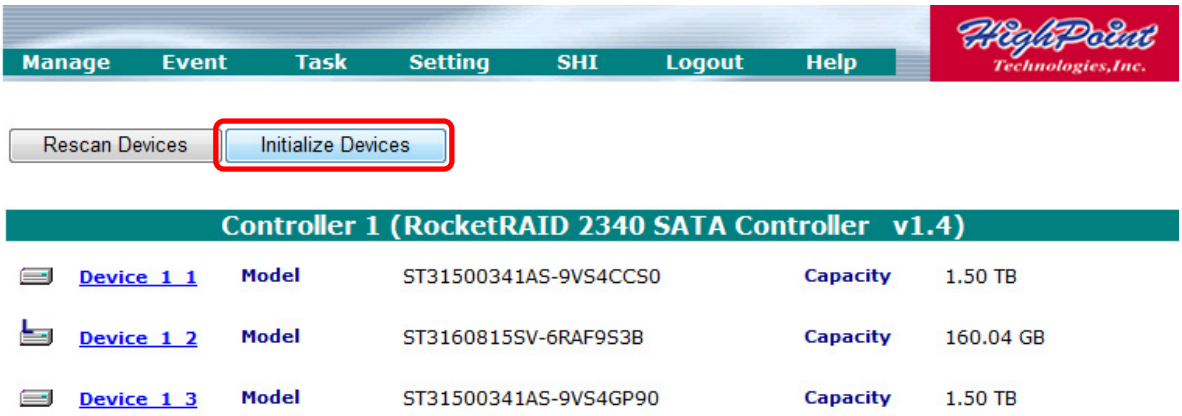
5. After log in successfully, you will see **Logical Device Information** page.

- Ensure the quantity of HDD is correct. If not, please turn off the system to check whether HDDs were inserted properly or were defective.
- Under **Physical Device Information** section, you can distinguish the new/used status of the HDDs from the HDD icon. HDD icon with letter **L** (Legacy) on it is for used HDD. HDD icon without any letter is for new HDD.



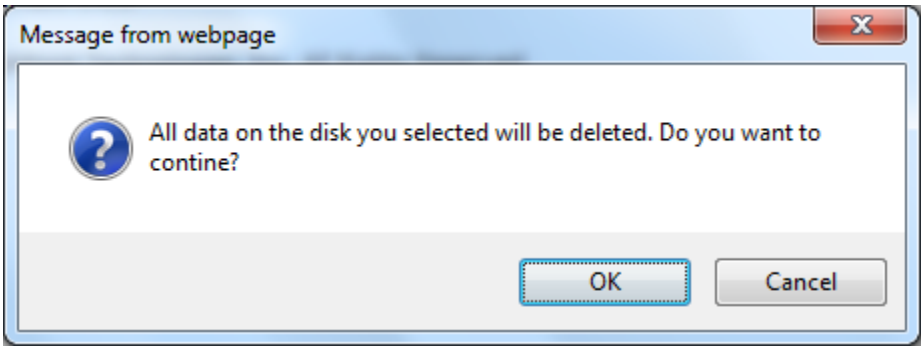
6. After checking the HDD Status, go to **Manage**, then select **Device**.

7. Under **Manage** page, click Initialize Devices to enter **Initialize Physical Device** page.

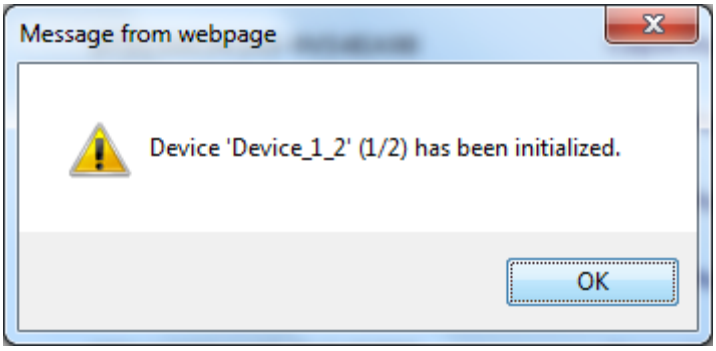


8. Click Select All to select all un-initialized HDD, and then click Submit to start.

9. Click **OK** on **"All data on the disk you selected will be deleted. Do you want to continue?"**



10. System will message you for every completion of each HDD.



11. After completion of HDD initializing, there will be no letter on the HDD icons on the **Physical Device Information**.

Manage
Event
Task
Setting
SHI
Logout
Help
HighPoint Technologies,Inc.
Rescan Devices
Initialize Devices
Controller 1 (RocketRAID 2340 SATA Controller v1.4)
Device 1 1 Model ST31500341AS-9VS4CCS0 Capacity 1.50 TB
Device 1 2 Model ST31500341AS-9VS4FZ7C Capacity 1.50 TB
Device 1 3 Model ST31500341AS-9VS4GP90 Capacity 1.50 TB
Device 1 4 Model ST31500341AS-9VS4EA9B Capacity 1.50 TB
Device 1 5 Model ST31500341AS-9VS4FRQS Capacity 1.50 TB
Device 1 6 Model ST31500341AS-9VS4G724 Capacity 1.50 TB
Device 1 7 Model ST31500341AS-9VS4FZCZ Capacity 1.50 TB
Device 1 8 Model ST31500341AS-9VS4EZRB Capacity 1.50 TB
Device 1 9 Model ST31500341AS-9VS4EFTR Capacity 1.50 TB
Device 1 10 Model ST31500341AS-9VS4FPC5 Capacity 1.50 TB
Device 1 11 Model ST31500341AS-9VS4FCB1 Capacity 1.50 TB
Device 1 12 Model ST31500341AS-9VS4FP6L Capacity 1.50 TB
Device 1 13 Model ST31500341AS-9VS4FPG4 Capacity 1.50 TB
Device 1 14 Model ST31500341AS-9VS4FPS1 Capacity 1.50 TB
Device 1 15 Model ST31500341AS-9VS4D46G Capacity 1.50 TB

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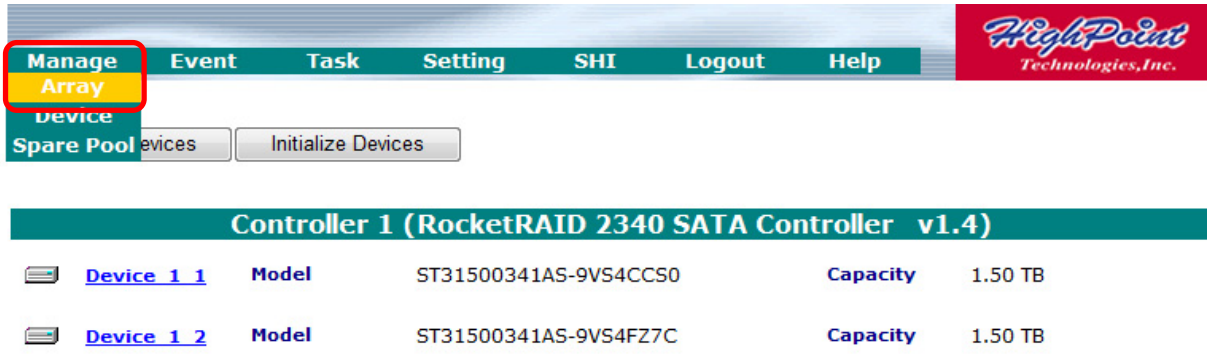
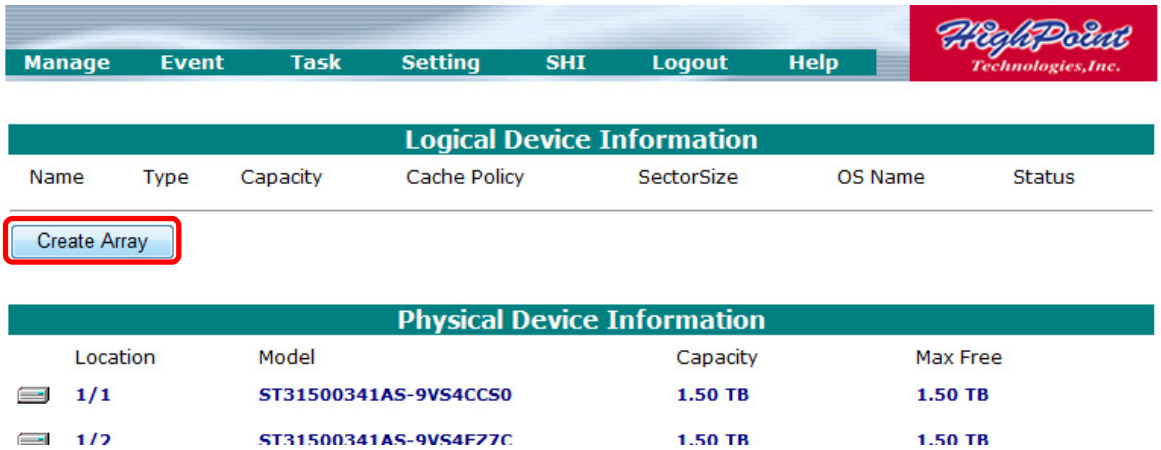
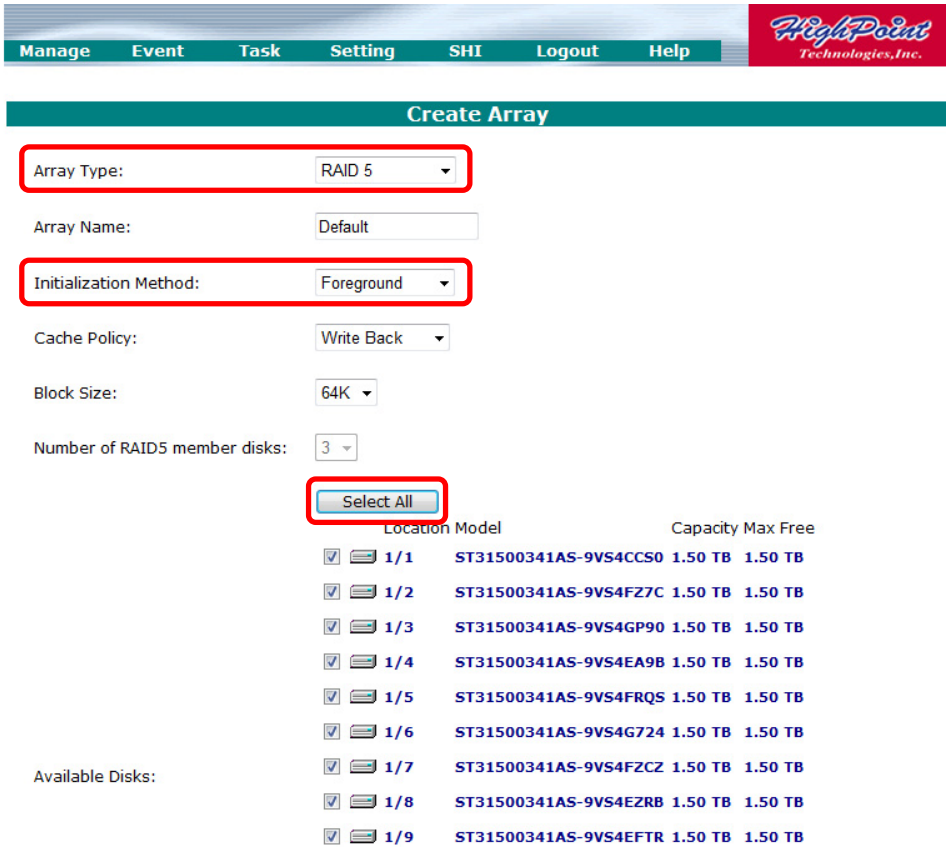
12. Go to **Manage** and select **Array.**



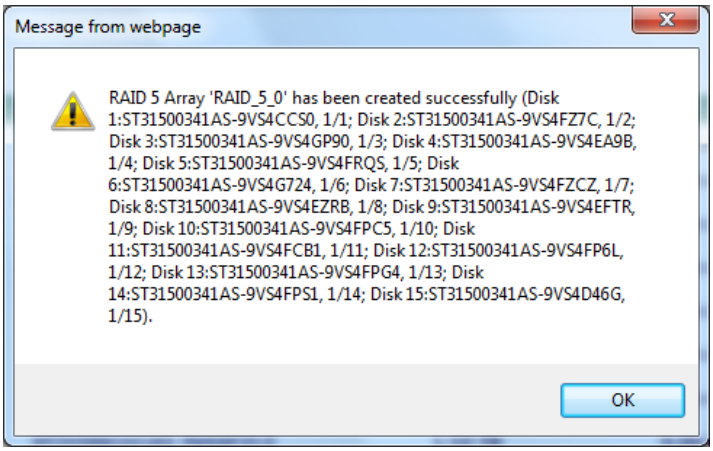
13. Click Create Array to enter **Create Array** Page.



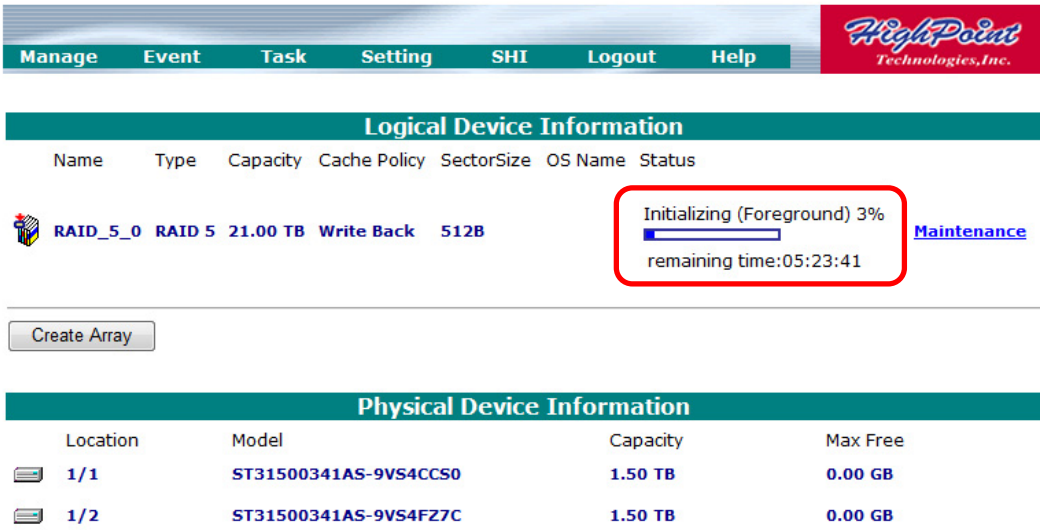
14. Under **Create Array** page, select **RAID 5b** for Array Type, **Foreground** for Initialization Method. Click Select All to select all HDDs, and then click Create to begin.



15. A message will appear upon completion.


Message from webpage
RAID 5 Array 'RAID_5_0' has been created successfully (Disk 1:ST31500341AS-9VS4CCS0, 1/1; Disk 2:ST31500341AS-9VS4FZ7C, 1/2; Disk 3:ST31500341AS-9VS4GP90, 1/3; Disk 4:ST31500341AS-9VS4EA9B, 1/4; Disk 5:ST31500341AS-9VS4FRQS, 1/5; Disk 6:ST31500341AS-9VS4G724, 1/6; Disk 7:ST31500341AS-9VS4FZCZ, 1/7; Disk 8:ST31500341AS-9VS4EZRB, 1/8; Disk 9:ST31500341AS-9VS4EFTR, 1/9; Disk 10:ST31500341AS-9VS4FPC5, 1/10; Disk 11:ST31500341AS-9VS4FCB1, 1/11; Disk 12:ST31500341AS-9VS4FP6L, 1/12; Disk 13:ST31500341AS-9VS4FPG4, 1/13; Disk 14:ST31500341AS-9VS4FPS1, 1/14; Disk 15:ST31500341AS-9VS4D46G, 1/15).
OK

16. Initialization process will begin upon array creation.


Manage Event Task Setting SHI Logout Help
HighPoint Technologies,Inc.
Logical Device Information
Name Type Capacity Cache Policy SectorSize OS Name Status
RAID_5_0 RAID 5 21.00 TB Write Back 512B
Initializing (Foreground) 3%
remaining time:05:23:41
Maintenance
Create Array
Physical Device Information
Location Model Capacity Max Free
1/1 ST31500341AS-9VS4CCS0 1.50 TB 0.00 GB
1/2 ST31500341AS-9VS4FZ7C 1.50 TB 0.00 GB

17. Upon initialization process, the status will become **Normal**.

Manage Event Task Setting SHI Logout Help
HighPoint Technologies,Inc.
Logical Device Information
Name Type Capacity Cache Policy SectorSize OS Name Status
RAID_5_0 RAID 5 21.00 TB Write Through 512B HPT DISK 0_0 Normal
Maintenance
Create Array
Physical Device Information
Location Model Capacity Max Free
1/1 ST31500341AS-9VS3Z5RS 1.50 TB 0.00 GB

18. Please restart the system.

19. When you restart the system, the **System Process** window will appear. This time, please **do not** click Terminate and wait 30 seconds for this window to disappear.

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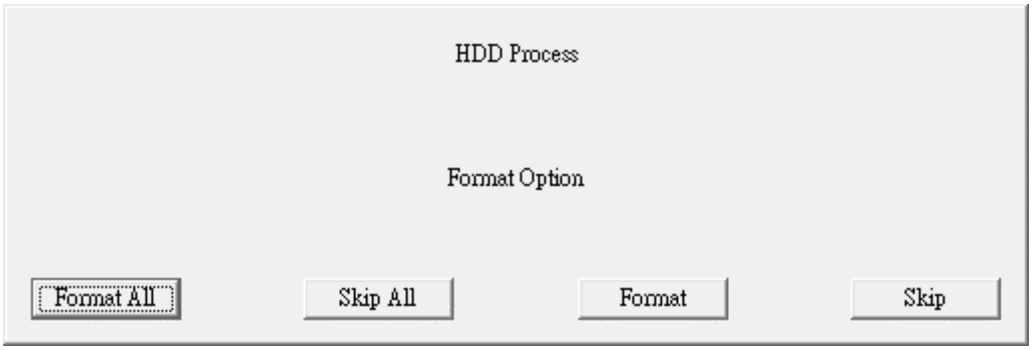
20. The system will ask for HDD formatting. Please click [Format All] to begin HDD formation process.



21. Upon HDD formation, the system will automatically restart again and start NVR program.

Notice: If the network video recorder is nVR-15 or nVR-15 Raid series, please insert the HDD rack from the bottom to the top, in order to prevent no detection of HDD.

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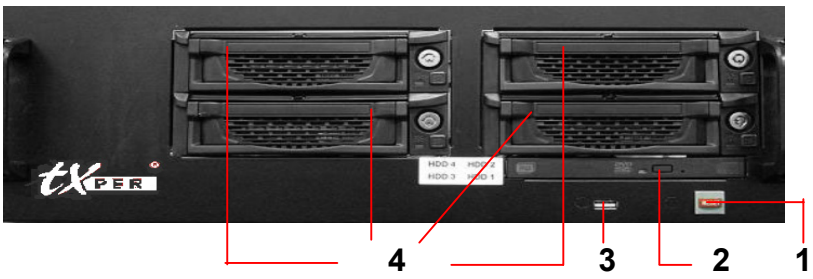
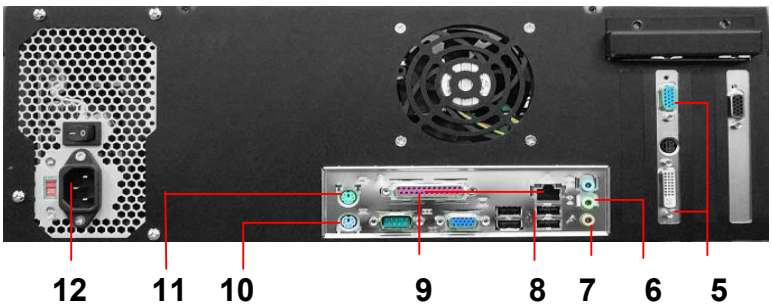
Commander Station (Central Management Server software built-in)

Model: nCS-16 / 32 / 48

- Product Front View



- Product Rear View



Item	Component	Description
1	Power button	Press to turn the nCS on.
2	Recordable DVD Drive	Use this drive to install programs, store files onto recordable DVDs.
3	USB port	Plug USB devices.
4	HDD Caddy * 4	For HDD installation.
5	Video Out	Video output connector for Monitors.
6	Speaker Out	Plug an external speaker into this jack to listen voice.
7	Mic In	Plug an external microphone into this jack to transmit voice.
8	USB ports * 4	Plug USB devices.
9	Ethernet Jack	Plug 10/100/1000 Ethernet network cable into the jack.
10	Keyboard	Plug the keyboard.
11	Mouse	Plug the Mouse.
12	Power In jack	Plug the power cord into the port.

Default manufacturer setting is set to 230V.
If the environment is under the 115V electric power supplied.
Please ensure to use the correct voltage 115V before turning on the nCS.

To avoid the risk of explosion from using incompatible battery, please use batteries with the same specifications or recommended by your original supplier or manufacturer. Dispose of used batteries according to the instructions.

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Application CD

Application CD contains:

Main Menu Page:

* **Acrobat Reader**: To install Acrobat Reader Software
* **Manual**: PDF User Manual File
* **Software**: Go to Software List Page

NOTE: Your CMS is built in nCS already. Thus, it is not recommended to install the nCS again.

Software List Page:

* **CMS**: Central Management System

Actual CMS is varied on the nCS computer.

* **IE Surveillance Software**: To install the RemoteCMS software.
* **IP address Setup**: To install the IP tool.
* **Previous**: Go back to main menu page

NOTE: Installing both CMS and LVC on the same computer is not allowed.

CMS Lite Version does not include Local View Client software.

Please note that it is not recommended to install third party software on the nCS (Network Commander Station) as installing third party software will lower the system's performance and even cause the crash of the CMS system.

Must you install the extra software provided by third party then please keep the following in mind:

CAUTION

Do not install the software on the system driver. Installing the extra software on the system driver C will cause the system crash. Please attached the HDD and install the software on the HDD.

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System Requirements for the LVC and RemoteCMS Software

Telexper IP CCTV Solution provides the best performance, stability and reliability for you all to have the best quality on the Surveillance and security.

Regarding the LVC (Local View Client), or RemoteCMS, please refers to the Recommended Hardware Environment below:

Minimum Computer Requirements for LVC (Local View Client) and RemoteCMS:

- **Operating System:** Better to have the Windows XP SP2 at least or most updated patch
- **CPU:** Intel **Dual-Core** 2.66GHz, or higher
- **Ram:** 2GB Memory or more
- **HDD:** Minimum 300MB space size for software application installation
- **Display:** Best Recommended Resolution at 1680x1050

Recommended Computer Requirements for LVC (Local View Client) and RemoteCMS:

- **Operating System:** Better to have the Windows XP SP2 at least or most updated patch
- **CPU:** Intel **Core2 Quad** 2.66 GHz, or higher
- **Ram:** 4GB Memory or more
- **HDD:** Minimum 300MB space size for software application installation
- **Display:** Best Recommended Resolution at 1680x1050

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Chapter 3 System Setup

System Setup Flow Chart

Prepare the hard disks (HDD)
3.5 SATA type HDD is recommended

↓

Install the HDDs inside the **Caddy** case
(For nCS series, ensure to lock the HDD power switch)

↓

Connect Cameras by using the 75 Ohm coaxial video cable to nVS-1P

↓

Connect the nVS-1P by using the CAT-6 LAN cable **to nHub-4P**

↓

Connect the nHub-4P by using the CAT-6 LAN cable **to nCS**

↓

Check the Monitors, Keyboard, Mouse, Power cord…etc are connected

↓

Power on the nCS, the system would auto-setup at first launch

↓

CMS will start after 3-5 times reboot

↓

Finish, system start working

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Setup under Firewall Environment

Among the anti-virus products in the market, many have the firewall feature included. If your IP Network devices were installed under the environment with firewall, you will need to manually open ports to allow CMS system to detect ALL the IP devices.

1. Ensure port numbers are opened.
   Required port numbers for IP Network System:

Purposes	**Port Number**
Central Commander Station, Hybrid DVR	6741
IP cameras, video servers, matrix decoders, NVR (network video recorder)	34000
Remote CMS (Remote playback of WinNVR)	6742
Web service for CMS	80

2. If you were still **not** able to detect IP devices after opening all ports listed above, please **shut down** your firewall or anti-virus software.

3. If you were able to detect all devices after closing down the anti-virus software or firewall, please **check and adjust** your firewall or anti-virus software settings accordingly.

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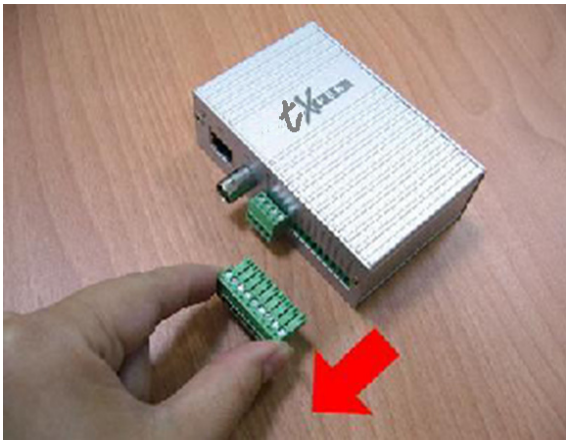
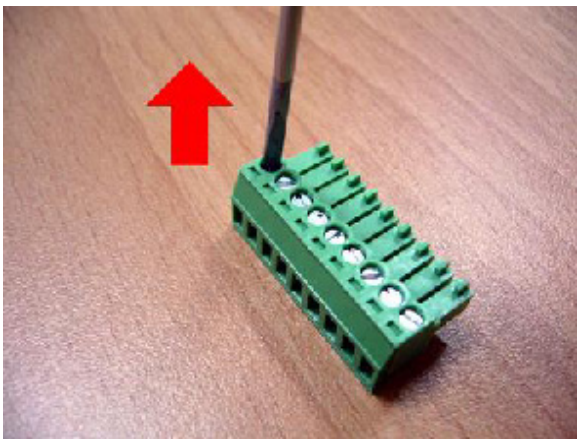
Quick Installation

Model: nVS-1P

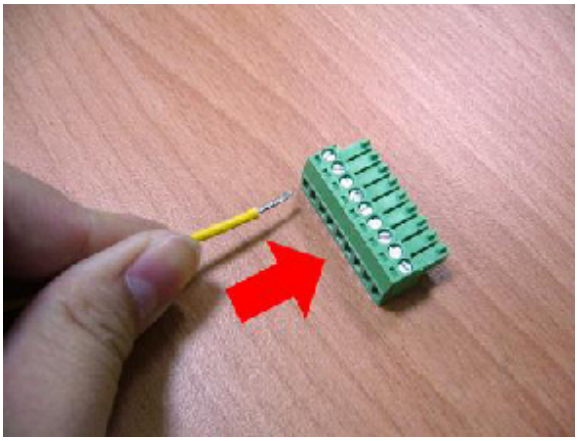
Step-1



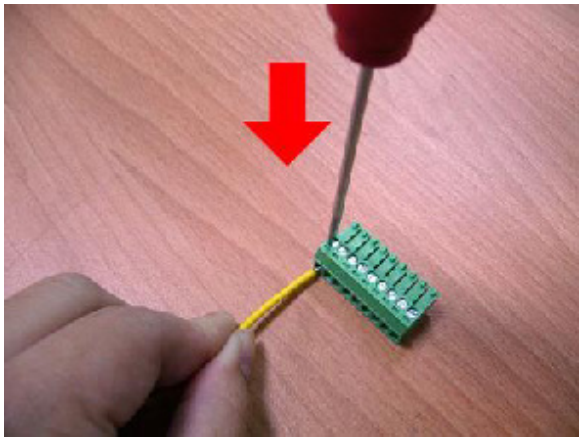
Step-2



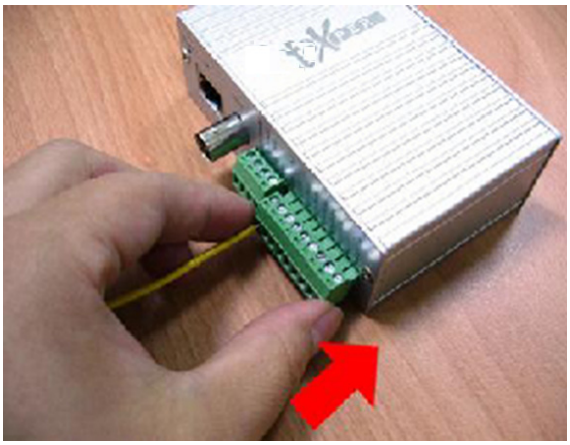
Step-3



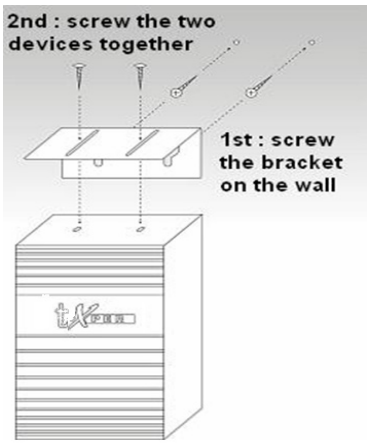
Step-4



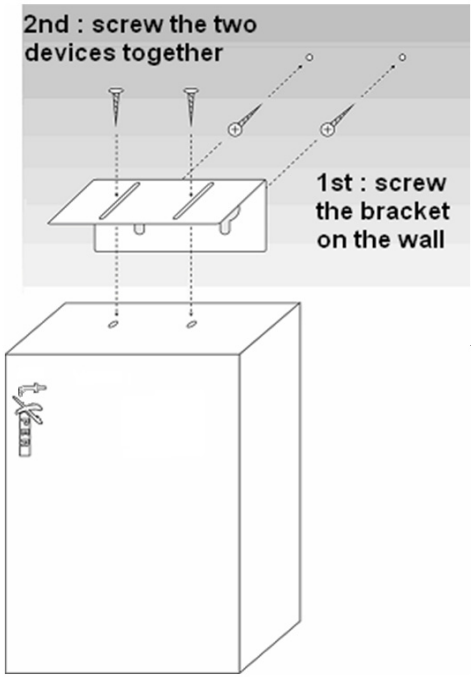
Step-5



For the Wall-mount bracket

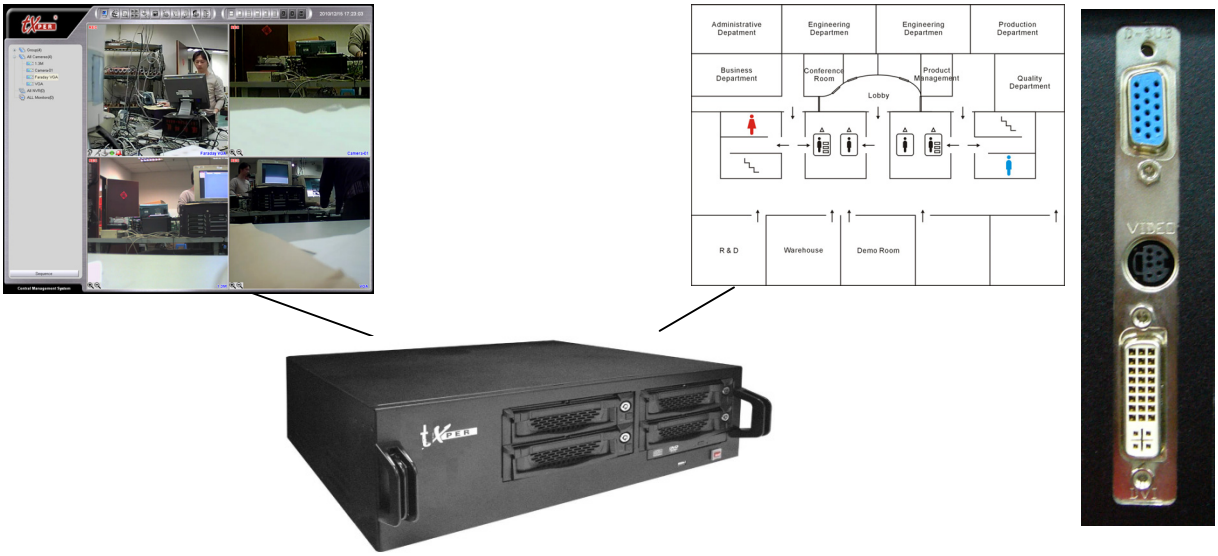


Model: nHub-4P



Model: nCS-16 / 32 / 48

Dual-Monitor Display Design (Video + E-Map)



Please prepare two monitors and connecting with the **Commander Station** when you want to use the Dual-Monitor Display function.

The connected interface with two VGA outputs is in back of the nCS as below picture.

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IP CCTV Installation Diagram

For the assembly of the speed dome camera, please refer to the complete manual.

Chapter 4 IP Address Setup (Device Setting)

IP Address Setup (Device Setting) software is designed specifically for user with complex internet network to easily update each device's network parameters.

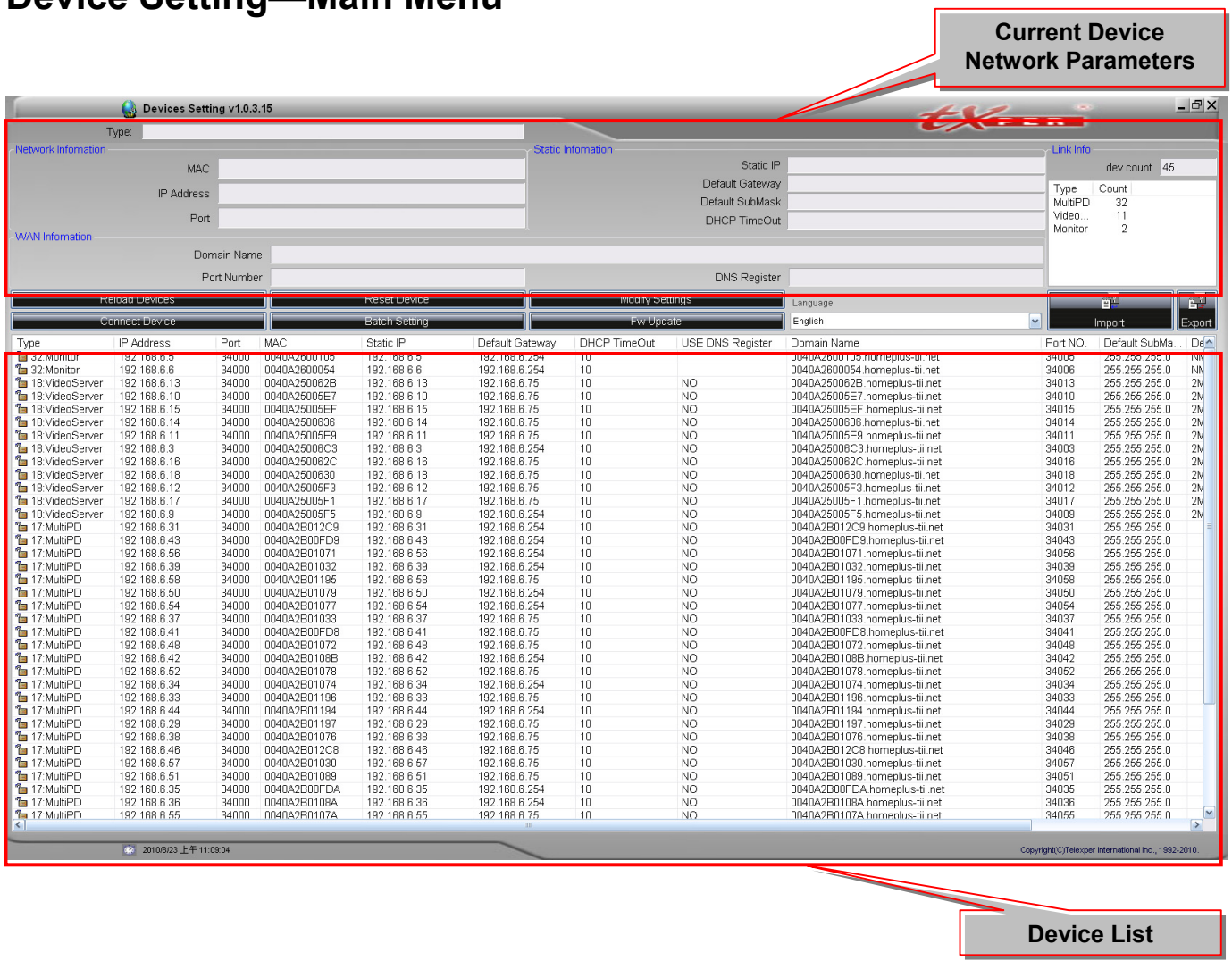
Enter Device Setting

After installation from the Application CD, an icon

will appear on the desktop.

Double-click the icon to begin the software.

Device Setting—Main Menu



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Current Device Network Parameters

Use the cursor to select one device from the Device List, then the information will display :

Type (e.g. 18: Video Server)

Network Information: Show the current MAC/ IP Address/ Port data of the selected device

Static Information: Show the current Static IP Address of the selected device

WAN Information: Show the current network parameters of the Dynamic IP network of the selected device. Those parameters will be assigned by Telexper DNS servers automatically.

Domain Name: The Domain Name (e.g. 0040A250053C.homeplus-tii.net) is used to connect the device remotely via WAN if the device is using the dynamic IP to WAN (internet)

Buttons Descriptions

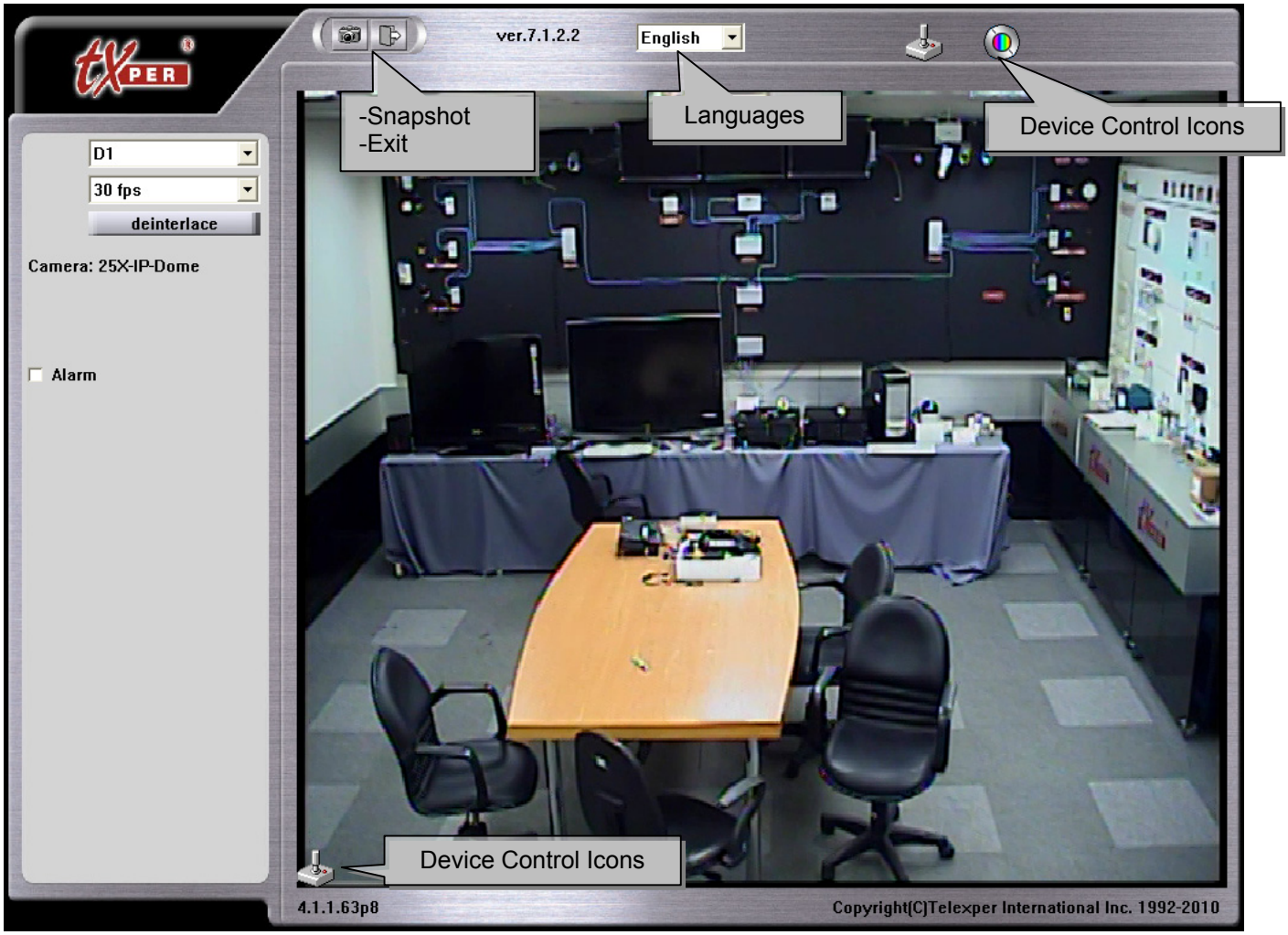
Connect Device

1. Select one device from the Device List and click

to view directly.
2. User name and password are required:

Default Username: admin
Default Password: 99999999

3. Once logged in, the live view will display as below. You may control the PTZ or I/O devices by clicking on the small icons or right-clicking on the channel. The **Snapshot** function allows user to save the current image as JPG file.



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4. You may also adjust the device settings such as resolution and fps.

5. Check the **Alarm** box to enable alarm notification for Alarm-In-enabled device. When the alarm is triggered, a red alarm icon will appear on the screen. For Alarm In setup, please refer to Chapter7—Alarm In and Alarm Out Setting.
6. Click to exit.

Reload Devices

Click

button to detect new devices and refresh current device list.

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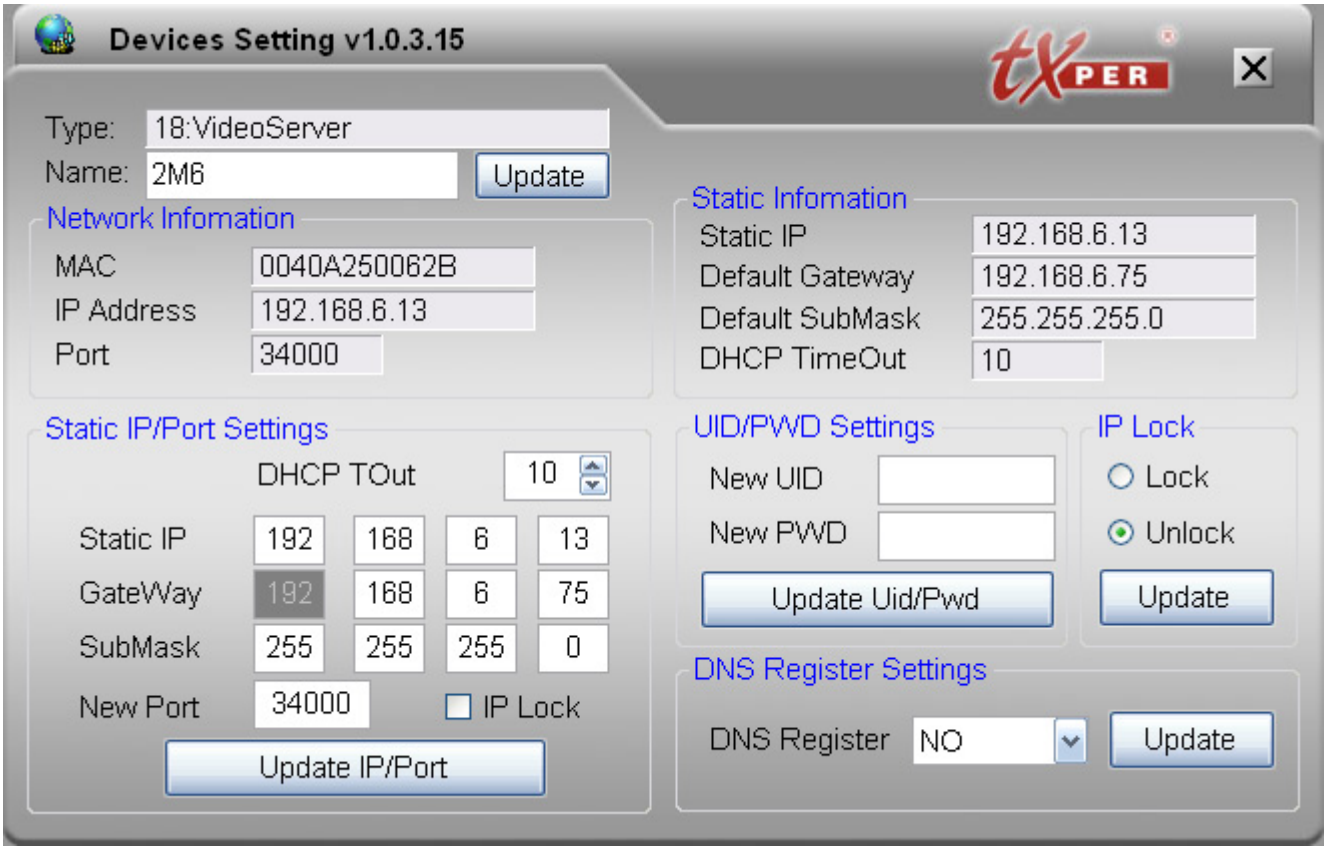
Modify Setting

Click Modify Settings button to edit selected device's network information.



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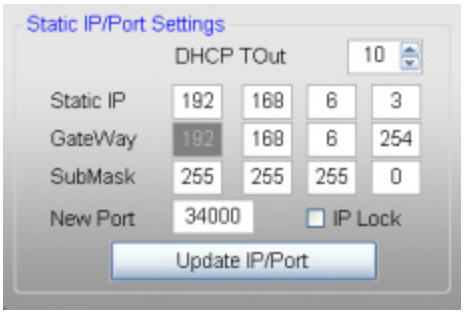
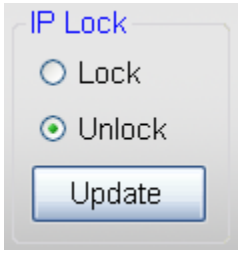
Static IP/ Port Setting:



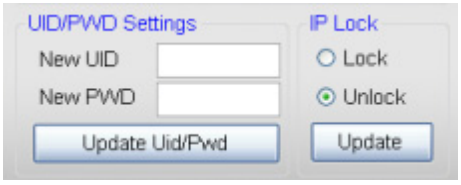
1. Set up **DHCP Timeout** value **"0"** to disable DHCP.
2. Key in the assigned IP/ Port setting for the selected device
3. Check the **IP Lock** box to lock the IP settings.
4. Click **Update IP/Port** to save the settings.

IP Lock:



For locking the current IP settings, you may directly check on the **Lock** bobble and then click **Update**.

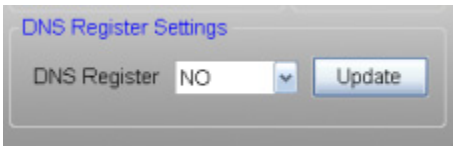
User ID/ Password Setting:



Default Username: admin
Default Password: 99999999

DNS Server Registration Setting:

We have DNS servers located in different locations around the world to serve the customers at NO COST.



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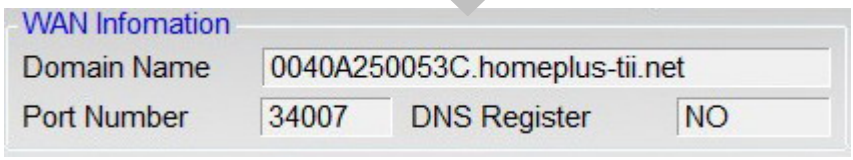
General Note for Device Setting:

1. Please ensure the device has been connected to the internet during this setup.
2. DNS server will assign a Domain Name & Port Number for you automatically; and show on the main page as below.



3. It takes 20 to 30 seconds to upload the modified settings to the device. The background color of device status list will become the color GRAY during uploading period; and back to WHITE after completing the upload.

Reset Device

Click

button to reset the network parameters of the selected device back to default.

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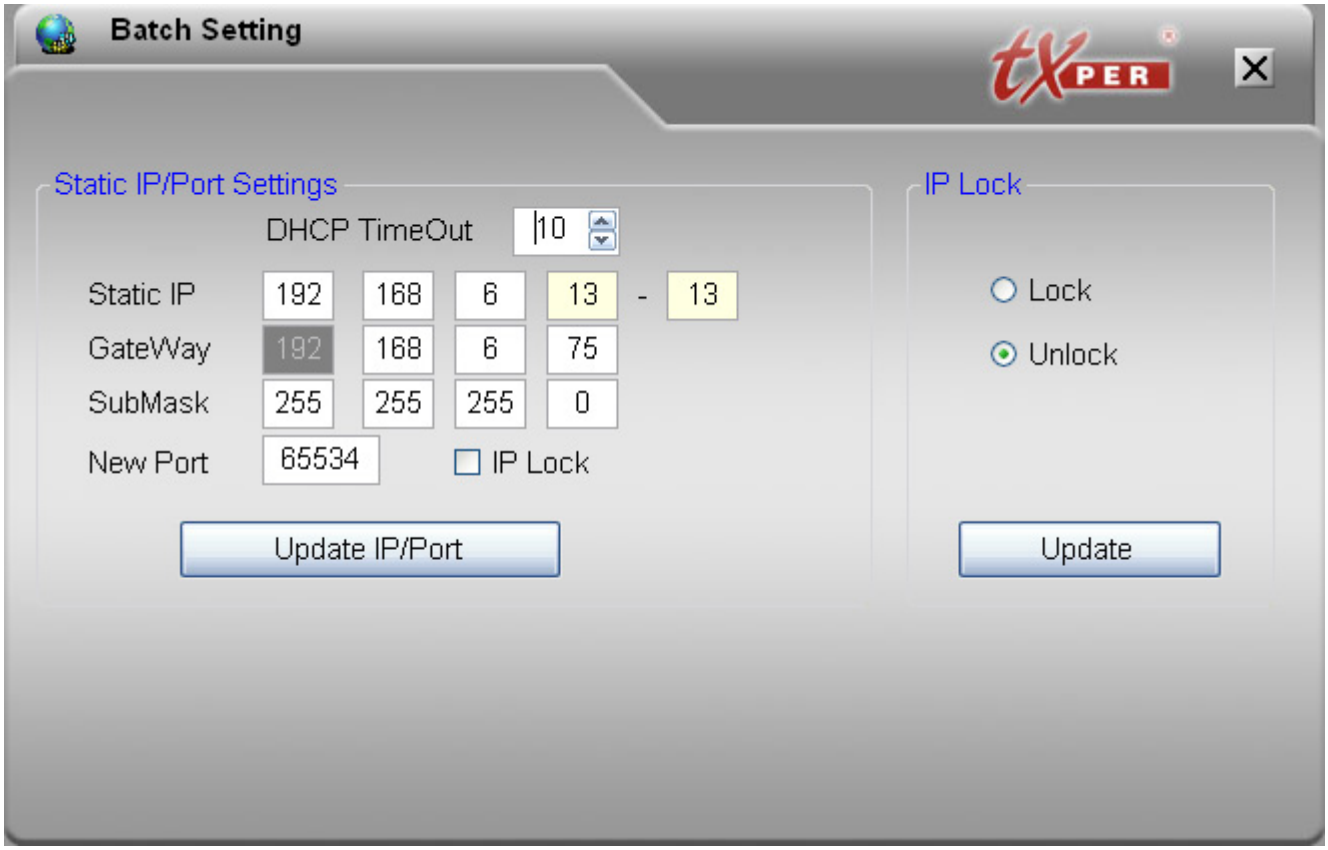
Batch Setting

This function enables user to synchronize multiple devices with the same settings at once.

Using the mouse and the **Control key** to select multiple devices and click

to enter the set up page.



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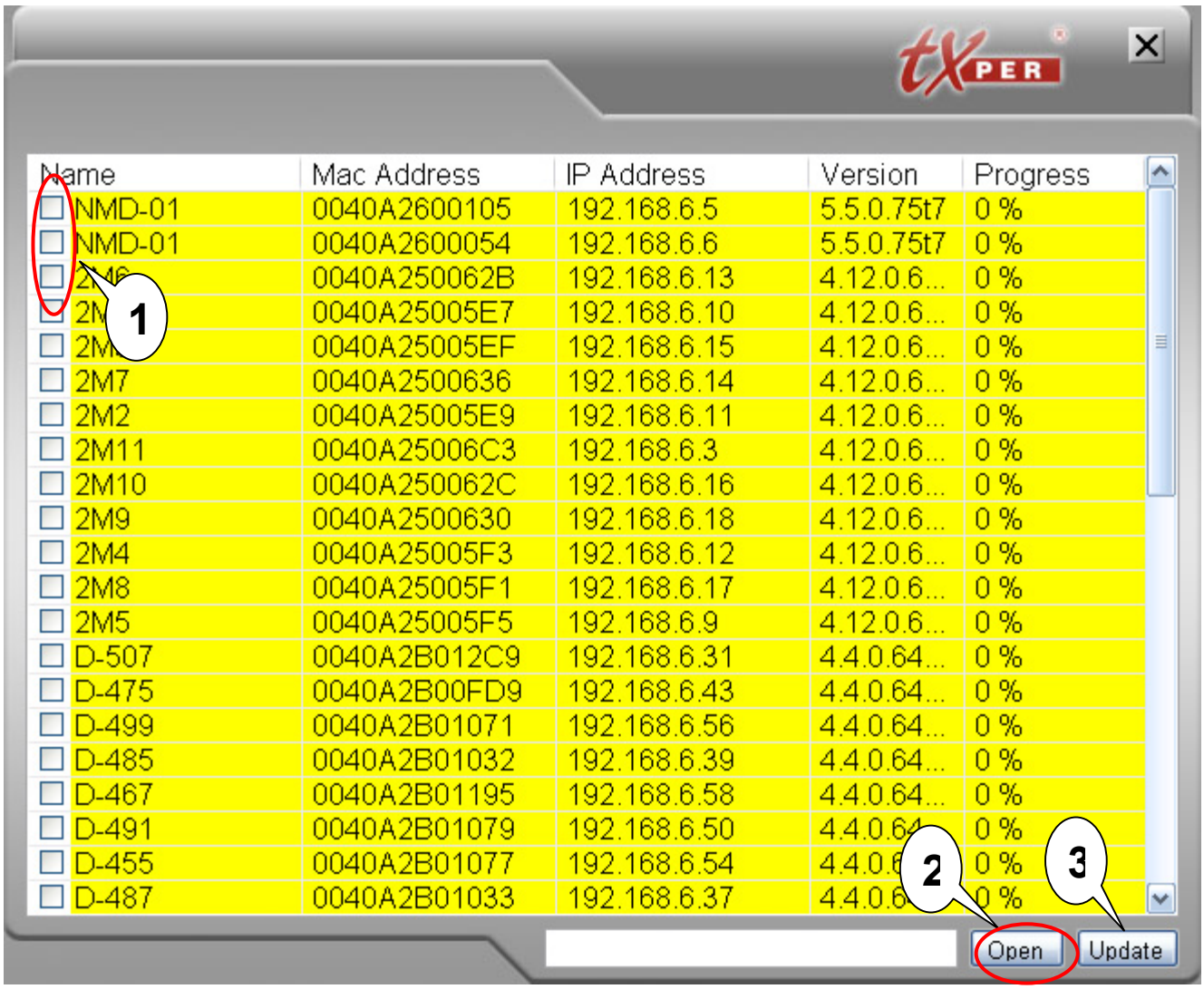
Firmware Update

Click

to access to firmware update page. Another window will display the current firmware of camera.



1. Select IP devices by checking the checkbox for firmware update.
2. Click **"Open"** button to select file directory of firmware.
3. Click **"Update"** to start updating.

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Chapter 5 CMS - General Operations

Getting Started CMS

Login **CMS** (**Central Management Server Software**)

Double-click the CMS shortcut icon to begin the software.
CMS

Then, there will be a window pop-up, key in username and password on it.

Default Username: admin
Default Password: 99999999

Press Keyboard button, the On-Screen Keyboard will be enable for input.

For the first-time login, CMS will detect automatically and display all cameras on the main screen.

After the first-time login, go to **Setup**, click **Search** and **Refresh** to detect and update
new devices.

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Change the password of the user

Check on "**Change Password**", the dialog window will expand.

Key-in the new password, and input again to confirm the new password, then, press "**OK**" to finish the modification.

The "Change Password" function is also available in CMS-Setup Menu.

Please help to refer the **Chapter 7 CMS-Setup Menu** → "**User Management**".

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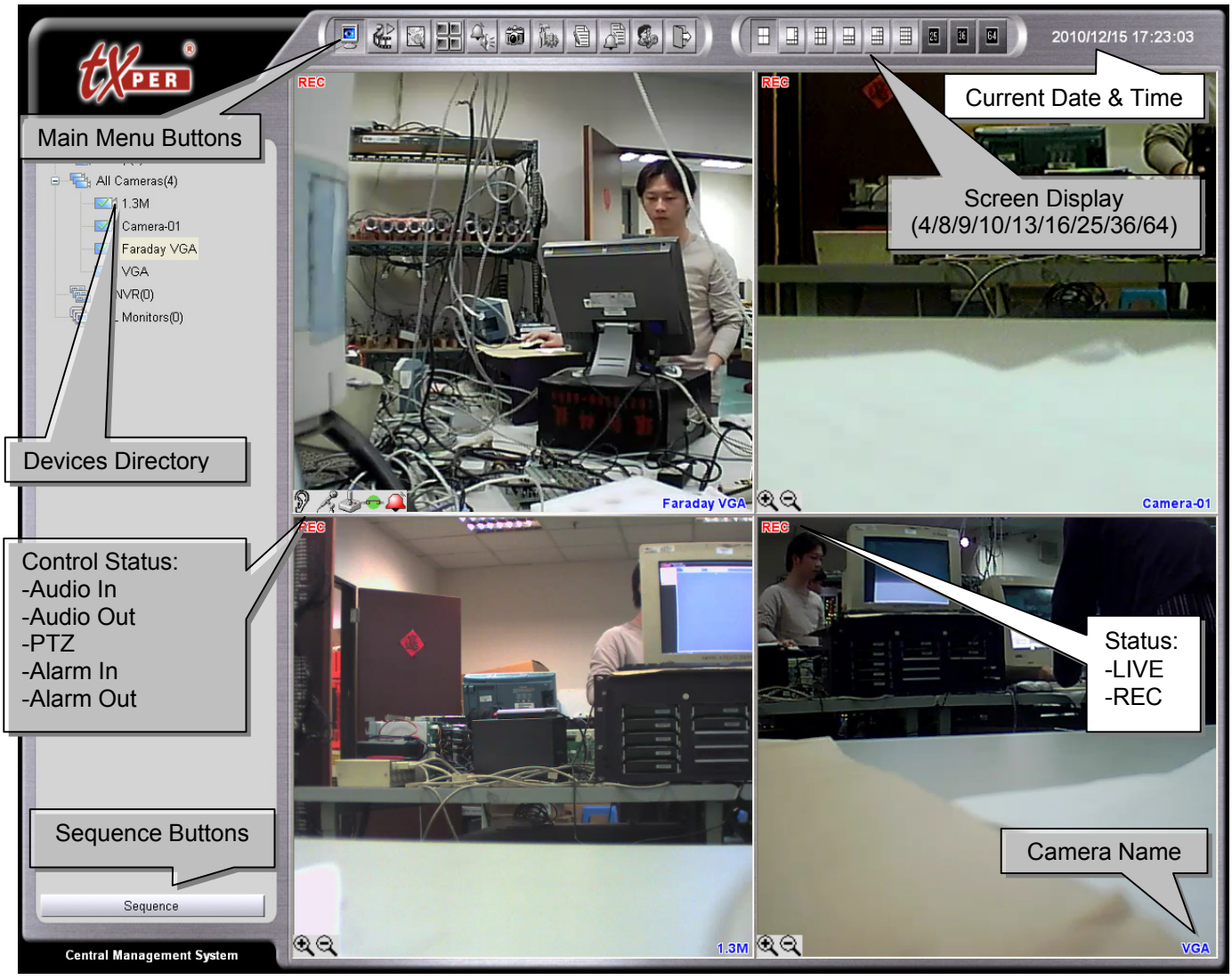
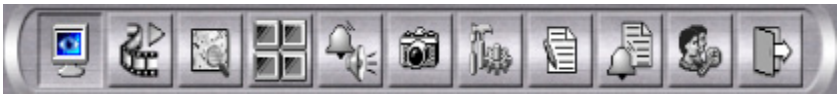
Chapter 6 CMS - Main Menu (Live Mode)

For the first-time login, CMS will detect automatically and display all cameras on the main screen.

After the first-time login, go to **Setup**, click **Search** and **Refresh** to detect and update new devices.



Main Menu Buttons Overview



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Live: Default mode for viewing the live view of the all camera channels

Playback: Switch to playback mode, please refer to **Playback Mode chapter.**

E-Map: Enable the E-Map mode; please refer to **E-Map Chapter**

Monitor (TV Wall): Enable the Monitor mode, please refer to **Monitor Chapter**

Disable Alarm Notification: Disable or enable the alarm sound.

Snapshot: Take a screen photo of currently selected camera screen.

Setup: Switch to the CMS Setup page. Please refer to the **CMS Setup** chapter

View Log: Open the log of System and Alarm list.

Alarm List: List of the 50 latest alarm messages. Click on the highlighted event to acknowledge the alarm.

Logout: Logout the current to switch to another log in user.

Exit: Close the CMS server system.

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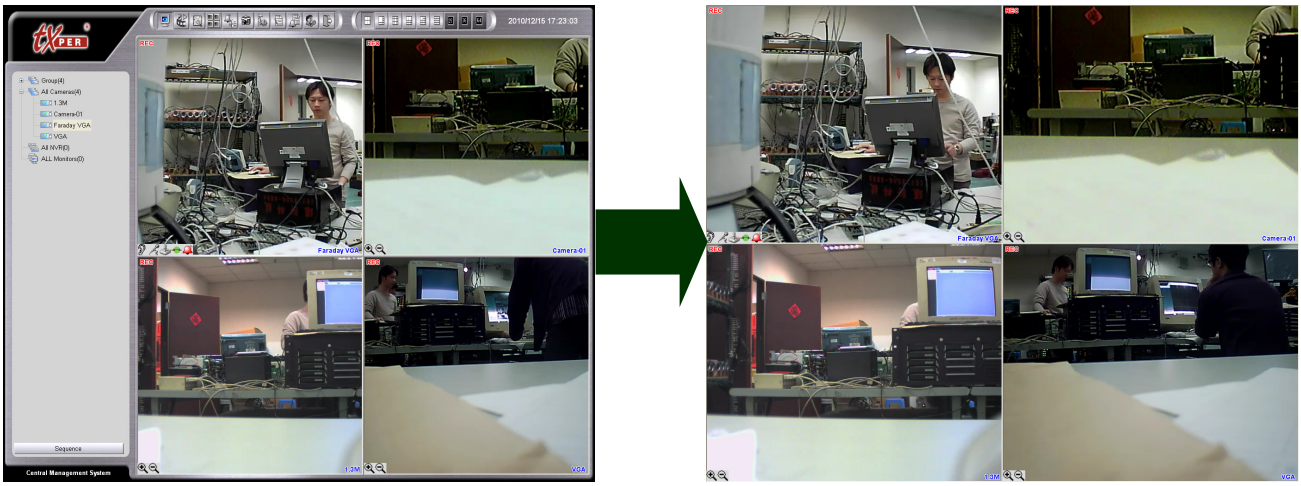
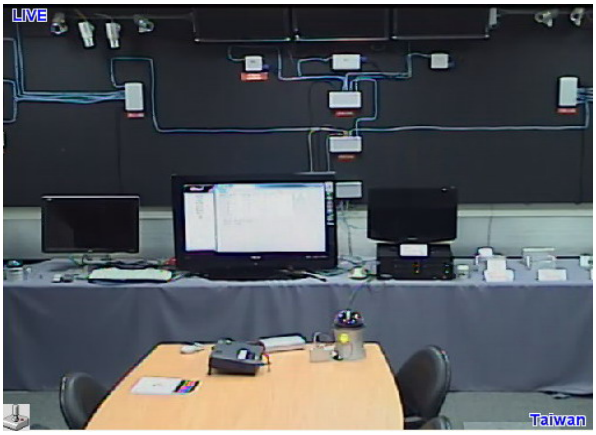
Hot Key

Alt + Enter: Switch the Camera display area to Full-Screen.



Camera Live Window



No Device

No Device picture appears when a camera device has not been installed to this channel or the installed camera cannot be detected by CMS.

Video Loss

Video Loss picture appears when there is a disconnection between CMS and camera or the camera is broken.

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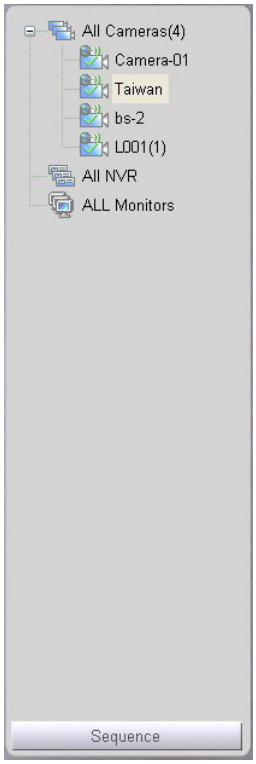
Device Directory



All Cameras: It will show all cameras which are auto-detected by the CMS. Click on the camera icon to view live video display on the right side.
Right-Click the mouse button on the camera will allow you to setup the camera.

All NVR: It will show all the NVR (Network Video Recorder) devices which are auto-detected by the CMS.
Right-Click the mouse button on the NVR will allow you to reboot or shutdown the NVR.

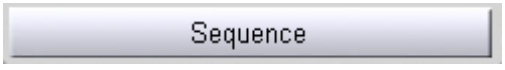
All Monitors: It will show all the monitor devices which are auto-detected by the CMS.

Except the directories tree of auto-detected devices, the system allows you to create your own device groups* to manage all the devices on the system. For device group settings, please refer to the Chapter7 CMS – Setup Menu.

* **All Cameras** does not count as a group. Only the customer defined groups can start up the Monitor (TV Wall) function. .

***All Cameras** only shows all the cameras which were auto-detected by CMS system.

Sequence



Sequence rotates and plays camera groups in every designed time frame.

1. Click **Sequence**, check boxes of the group you wish to play, and then select the time interval (5-60sec/min/hr).
2. Click **Start Sequence** to start or click **Exit** to cancel.
3. Click **Stop Sequence** to return to normal live view.

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Screen Display

Supports the 4/8/9/10/13/16/25/36/64 display **(CMS Lite version supports 16 display, Hybrid 16 version supports 36 display, Hybrid 32 version supports 64 display)**

For Full-Screen Display, please help to click directly on the desired channel to select, and then click again to switch to full-screen. Click again to return to the previous screen display.

Hide Cameras on the Live Screen

Drag and drop one channel to the **Camera Directory** to remove channels from the live screen.

There are two ways to include the channel back to the live screen:

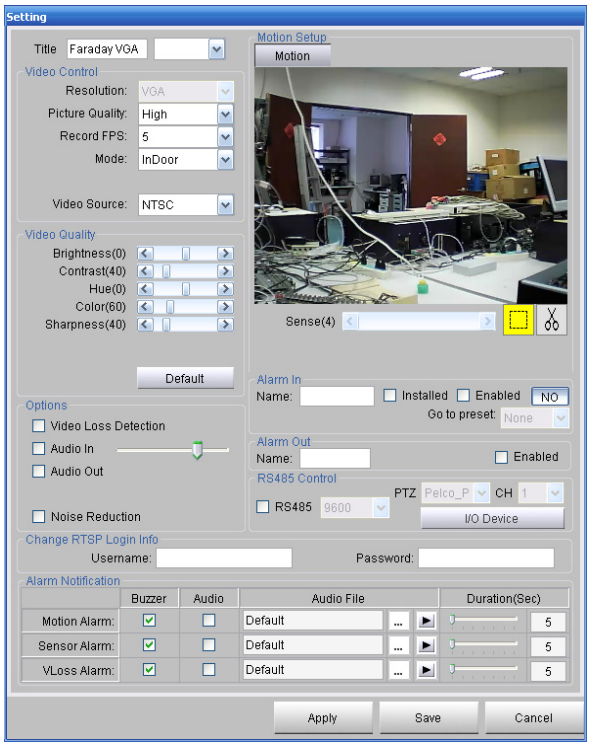
1. Double-click the camera icon on the **Camera Directory**.
2. Drag and drop the icon back to the live screen.

Organize Cameras on the Live Screen

Drag a channel and drop it on the position on the live screen to re-organize the order of the channels.

Shortcut to Device Settings, PTZ

Moves the mouse to the camera picture, then presses down the mouse right key to choose " Settings", then may enter the camera directly the setting menu; enlarges after the camera picture, presses down the mouse right key to chooses "Move Image", then may adjust the picture's display area horizontally, press down a time mouse right key then to cancel the towing again.



PTZ Icon

Please ensure the **RS485 Control** box is checked in the Setup page

PTZ Protocol: Support Pelco_P, Pelco_D, Bosch and VC.

Baud rate: 1200, 2400, 4800, 9600, 19200

Click

to extend the window as below:

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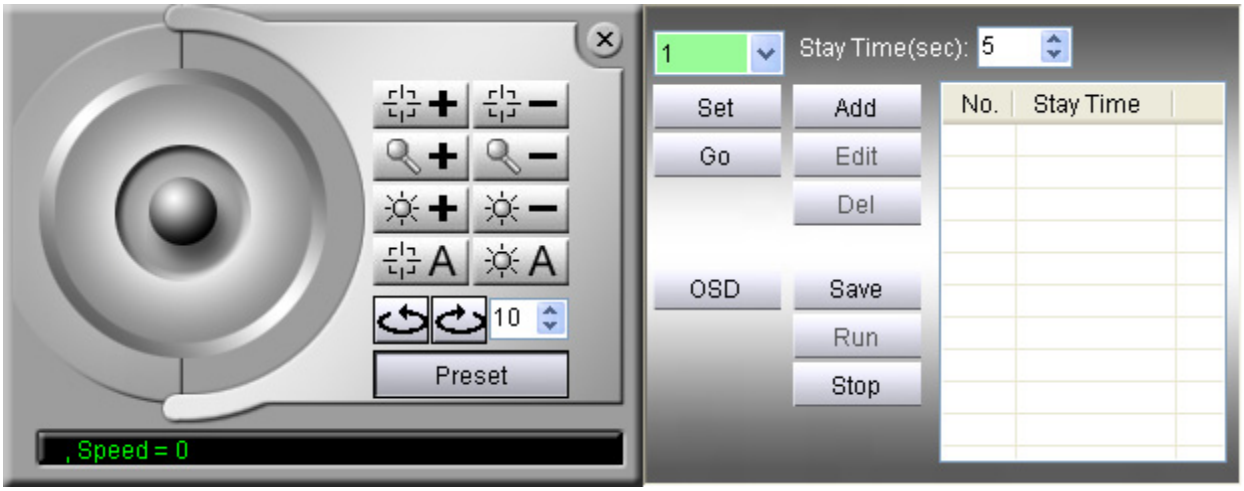
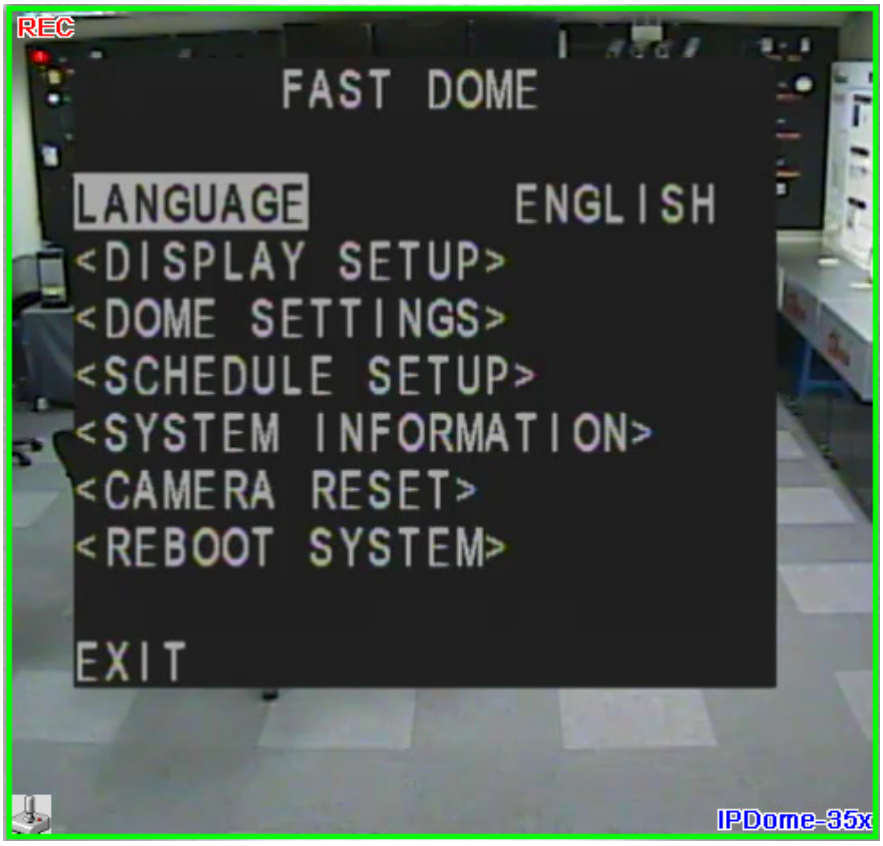


1. **For PTZ position setup, you may store up to 256 angles:** Position the angle by using the PTZ joystick controller, select Preset # and then click **"Set"** to save the changes. After the first setup, you can adjust the camera to pre-set angle by selecting the Preset # and click **"Go"**.
2. **PTZ OSD Setup**: The majority of the Speed Dome in the current market has OSD preset value at 95. Please select 95 for preset value, click Go and then click OSD to call out OSD window.

   Note: If you were not able to call out the OSD window, please refer to the manufacturer's camera user manual.



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3. Using the PTZ joystick on the CMS to operate the OSD window. Click to enter and click to close the OSD window.

Listen

Click the listen icon on a live channel to enable the **Listen** function. Click again to disable the function. Please make sure the **Audio In** box of this device is checked when you setup this **LAN Device**. (See Chapter7 CMS – Setup Menu) for LAN Device setup.

Broadcast

Click the **Broadcast** button to transmit audio to the selected device. Click again to disable the function. Please make sure the **Audio Out** box of this device is checked when you setup this **LAN Device**. (See Chapter7 CMS – Setup Menu) for LAN Device setup.

I/O Device

You could click the icon on the channel you want to control to open the I/O control panel. (See Chapter7 CMS – I/O Device)

Alarm In

Click Alarm In button for disable this function.

Alarm Out

Click Alarm Out button for TTL signal output.

Snapshot

CMS can take and save a single screenshot at the maximum resolution for the selected channel. Click a channel on the live screen and then press **Snapshot** button to save the image as a JPG file. To view or change the image folder, go to **Setup, MISC** to update the **Snapshot Folder**. (See Chapter7 CMS – Setup Menu) for MISC.

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View Log

Click on Alarm Log button to open **User Log** or **Alarm Log**.

1. User Log: User Log documents the user access information
2. Alarm Log: **Alarm Log** allows you to see all events with camera name, alarm type, start and end time.
   - Double-click the alarm log to start the video/audio playback. Click **Cancel** to exit.

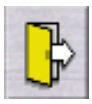
Alarm List

Alarm List shows the 50 latest alarm messages. Click the highlighted event to acknowledge the alarm. Check **Popup when Alarm Occurred** box to bring up Alarm List when an alarm is triggered.

You may update the status of the new alarm to Unresolved, Resolved or Pending. Once the status is updated, the event will be removed from the Alarm List. To further update the status of the alarm event, you will need to go to **Alarm Log** , which contains the full list of alarm events.

Logout

Click the Logout to change the user.

Exit 

Click the Exit to close the CMS.

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Chapter 7 CMS – Setup Menu

LAN Device

For the first-time login, CMS will detect automatically and display all devices on the screen.

If it is not the first time launch, the previous connected devices will show on the **Device List**.

1. **Device Auto Detect:** This is the default setting of the system.

Search button detects and adds new devices to the **Device List**.

Refresh button updates the **Device List** and removes unavailable devices.

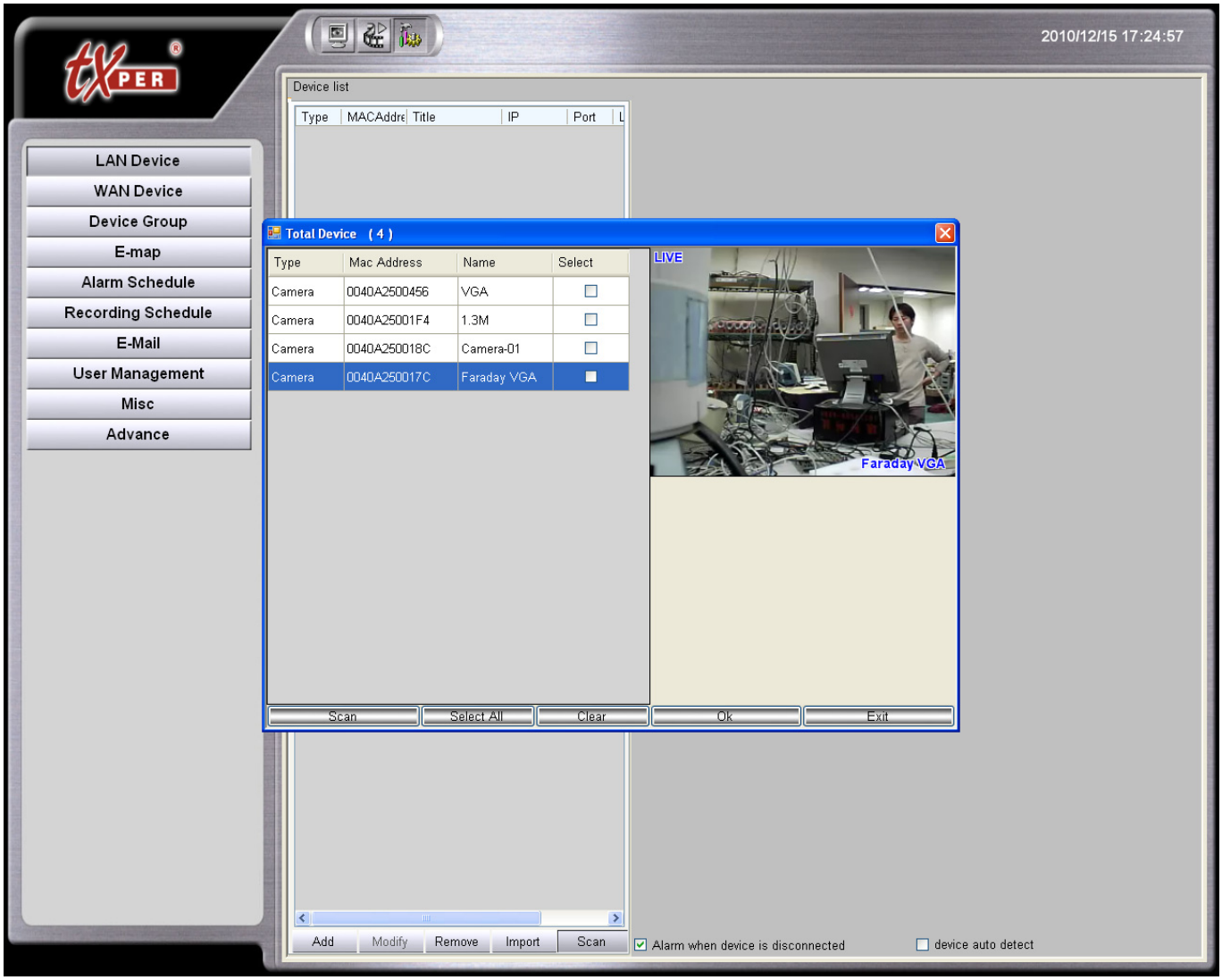
There will be many kinds of devices of the LAN Devices, such as Video Server, IP-Camera, Video Matrix Decoder and Network Video Recorder, etc.

Please note that all settings of the unavailable devices will be deleted.

Click on each device to edit its settings including name, functions, image quality and alarm.

Click **Save** to confirm the update and exit device setup.

2. **Manual Detect Device:** Unchecked the device auto detect box to enter the Manual Detect screen.



(1) Click Add to manually input device information.

(2) Click Import to directly import device information.

(3) Click Scan to manually select devices that you wish to display on the current system.

(4) Click Remove to manually remove device from the list.

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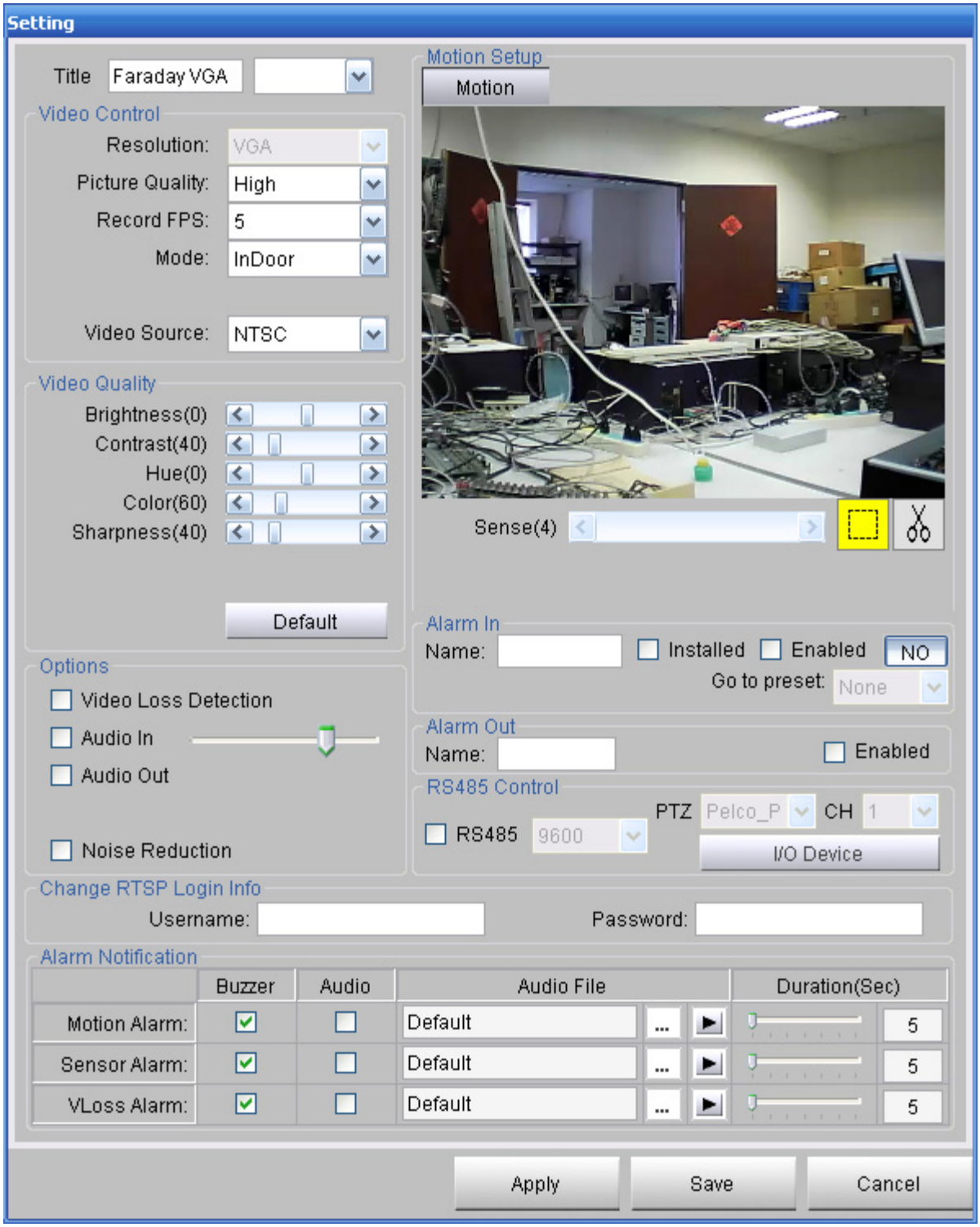
Video Server / IP Camera



Title: Rename the device. Host will update the device name accordingly.

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Video Control Setup: You can adjust image quality of each camera on the **Video Control** section.

Click the camera icon and then adjust image quality if needed:

- Resolution (1280 x 720, 1600x1200* / 1280x1024* / D1 / CIF / VGA)
- Picture Quality (High / Normal / Low)
- Record FPS (1 / 2 / 3 / 5 / 15 / 30)
- Mode (Indoor / outdoor)*
- Video Source (NTSC / PAL) *

*Mode option is only available for VGA device.

*Video Source option is only available for VGA, 1.3M and 2M device.

*1280 x 720, 1600x1200 is for 2 mega Pixel IP camera; 1280x1024 is for MEGA Pixel IP Camera.

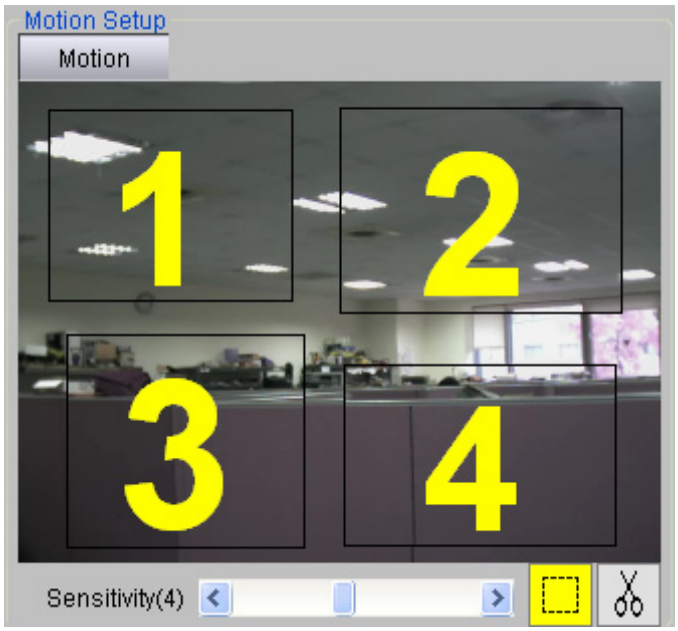
Video Quality Setup: On the **Video Quality** section, you could adjust **Brightness, Contrast, Hue, Color or Sharpness** to the scene environment.

Option:

Check the box of **Video Loss Detection** to detect any video loss.

Check the box of **Audio In** to enable receiving sound from the camera.

Check the box of **Audio Out** to enable transmitting sound to the camera.

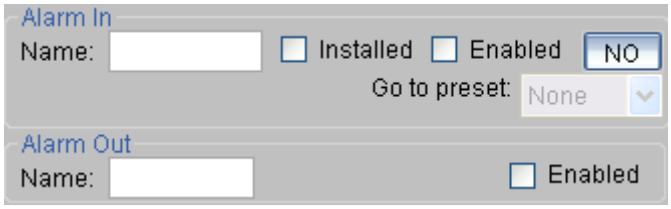


Motion Setup

1. Click to frame the motion area.
   Left-click on the screen and move the cursor to frame the desired area for motion zone. Each Camera can be set up to four (4) detection zones. You can adjust the zone size and drag it to the desired position.
2. Select the detection zone you want to delete and click to delete it.
3. Adjust the sensitivity of the detection. (1-10; 10: highest sensitivity)

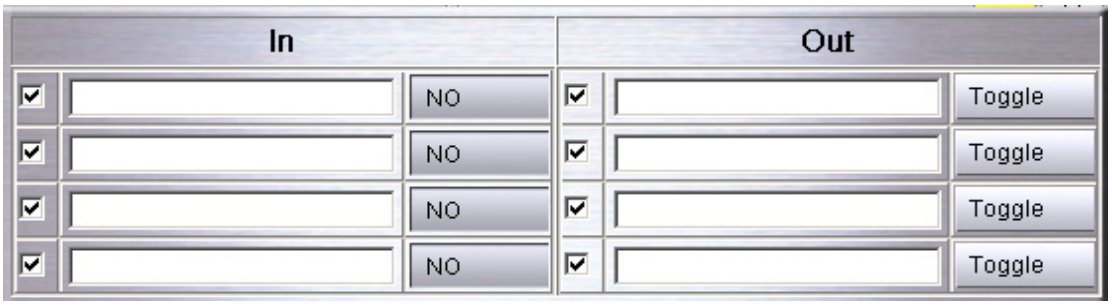
Alarm In and Alarm Out Setting

1. Insert name and check **Enable** box. This name will be shown on the E-map.
2. For **Alarm In Setting**, click **NC** button to switch to **NO** when needed.

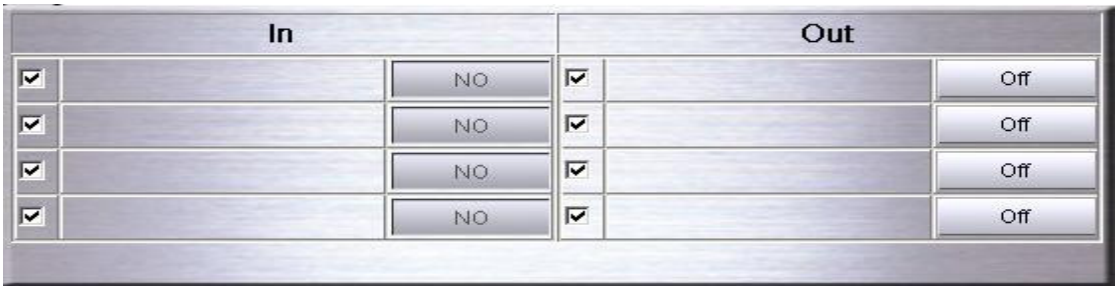


I/O Device

Click the IO Device will open the 4IN/4OUT RS485 I/O controller setup page for current video server.

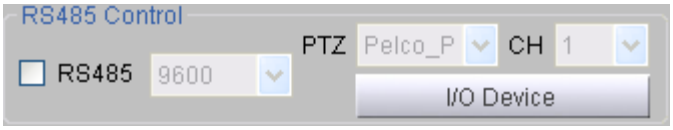


And then you could click the click the icon on the channel you want to control to open the IO control panel.



RS485 and PTZ Control

1. Check on the box to enable the PTZ control function.
2. Protocols supported by CMS currently are: **Pelco_P, Pelco_D, Bosch, VC and Panasonic**.
3. Baud rare supports 1200, 2400, 4800, 9600, 19200.
4. Channels defined as the ID which can support ID1 to ID255 devices.



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Acknowledge Alarm Event

When a motion alarm is triggered, the system will automatically start recording.

To acknowledge a motion alarm, click the flashing icon on the live screen.

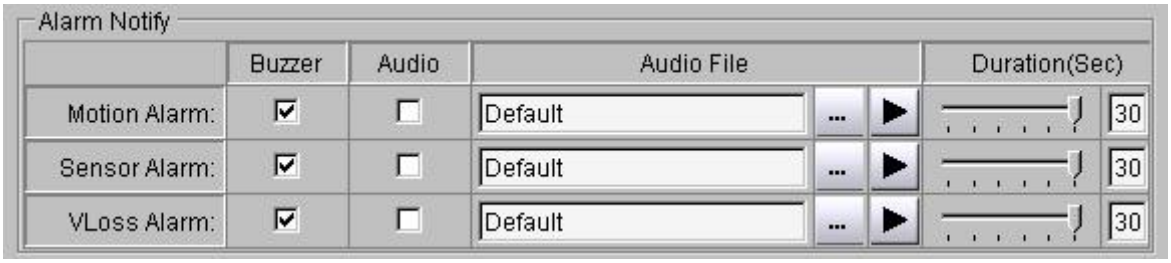
You may also have a quick view of the last 50 events from Alarm List.

Check **Popup when Alarm Occurred** box to bring up Alarm List when an alarm is triggered.

You may update the status of the new alarm to Unresolved, Resolved or Pending. Once the status is updated, the event will be removed from the Alarm List. To further update the status of the alarm event, you will need to go to **Alarm Log** , which contains the full list of alarm events.

Alarm Notify

1. Motion Alarm: Could define the sound type and the duration for each single camera.
2. Sensor Alarm: Could define the sound type and the duration for each single camera.
3. VLoss Alarm: Could define the sound type and the duration for each single camera.



Monitor (Video Decoder)

Monitor helps you to setup the **Video Wall** or **Video Matrix** with the monitor output devices auto-detect by the CMS server. Each Video Decoder has up to quad-screen display. With the **Sequence** display function, it could display up to 64 cameras.

Setting

1. Go to **Setup** page and select monitor device from the **Device List**.

   You may enter **Monitor Mode** and right-click monitor icon to go to the **Setup Menu**.

2. **Setting Page:**

   Select devices from the **Camera List** and then click to add to the selected **Display Cameras List**. You may drag and drop camera from the **Camera List** to **Display Cameras** List. Then check on the cameras on the **Display Cameras** List. You may re-arrange the order of the camera by using .

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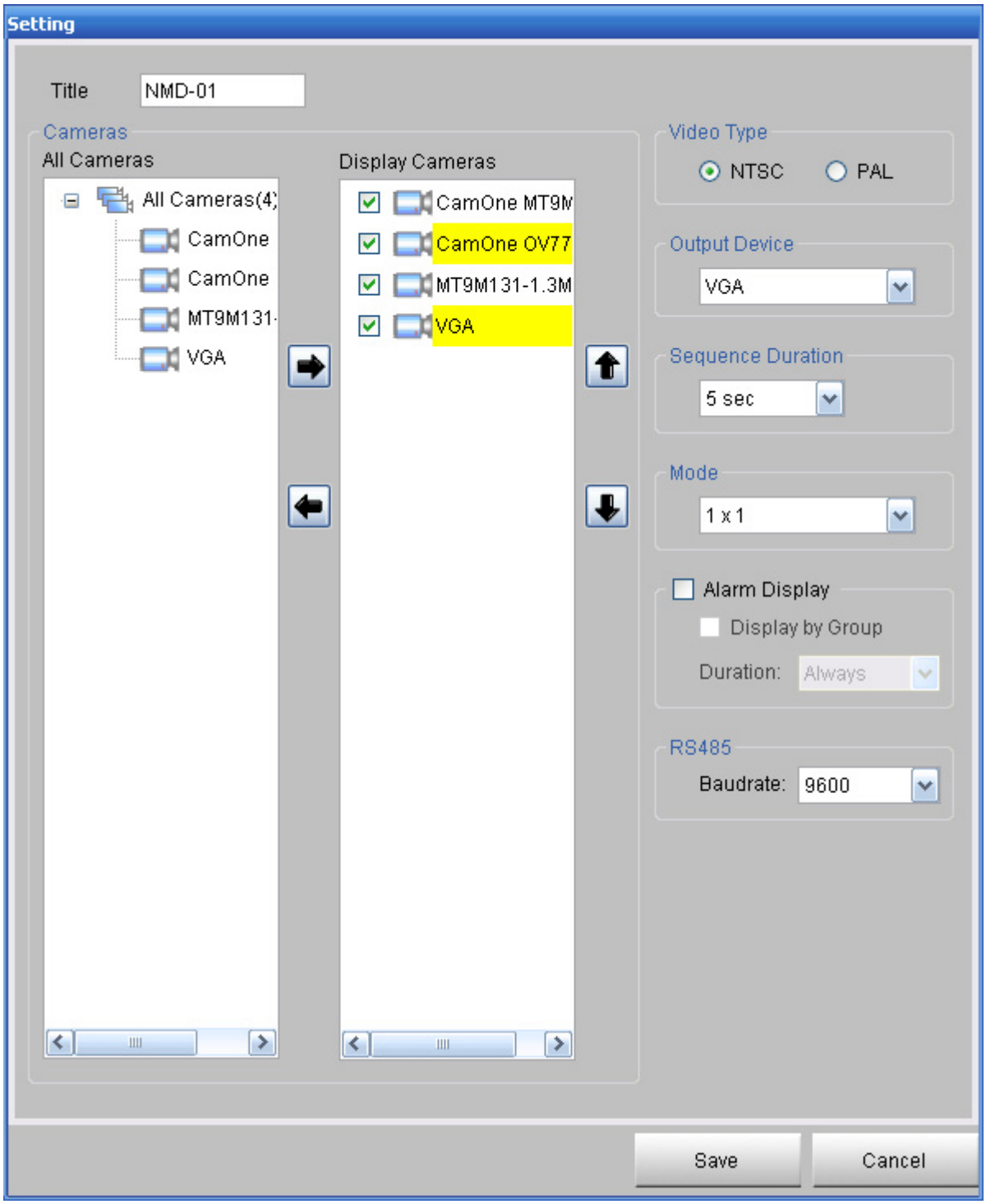

Video Title: User is able to key in or modify the device title.

Video Type: Select the display type of output device, NTSC or PAL.

Output device: Allow you to change the output setting when you are connecting the Video Decoder with a different output such as VGA, or HDMI.

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Sequence Duration: To setup the duration time for display when using the **Sequence** function. The Monitor device will display each camera by the time interval of the **Sequence Duration**.

Mode: Select 1X1 for full-screen display or 2X2 for quad-screen display. The yellow highlight of the cameras is for the ease of review for 1X1 or 2X2 group display. You may use to rearrange cameras between groups.

Alarm Display: Check this box to enable auto-switch to live view of the alarmed camera. The screen will automatically switch to live view and return back to TV Wall until the alarmed is cancelled.

- **Display by Group**: Check this box to only enable auto-switch to live view of the video wall which the alarmed camera belongs to.

- **Duration**: Select the duration of the display of alarmed camera. Select **Always** to continuing display alarmed channel until the alarm is manually acknowledged.

RS485 Baudrate：Select the corresponding Baud rate for the RS485 device.

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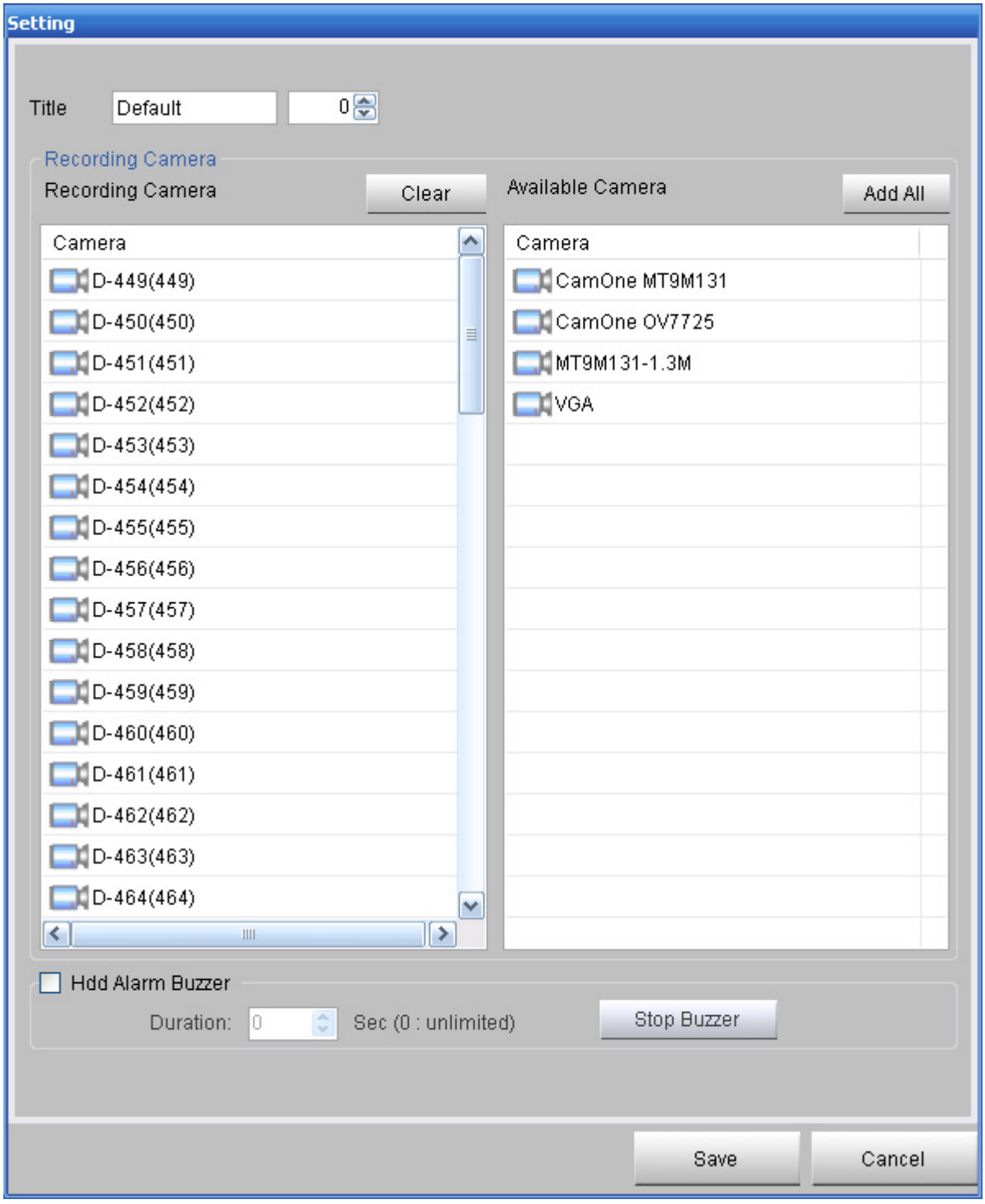
Network Video Recorder



Title: Rename the device. Host will update the device name accordingly.

Recording Camera: You may drop the camera icon from the **Available Camera** list to **Recording Camera** list for recording.

- **Clear**: This button clears **Recording Camera** List and stops NVR recording. All cameras will stop recording disregarding the recording schedule you have set up.

- **Add All**: This button adds all camera icons from **Available Camera** list to **Recording Camera** list.

- **HDD Alarm Buzzer**: Check this box to enable alarm buzzer when the HDD is malfunctioned or crashed. Adjust **Duration** for length of alarm buzzer time.

- **Save**: Click this icon to save all updated setting of this page.

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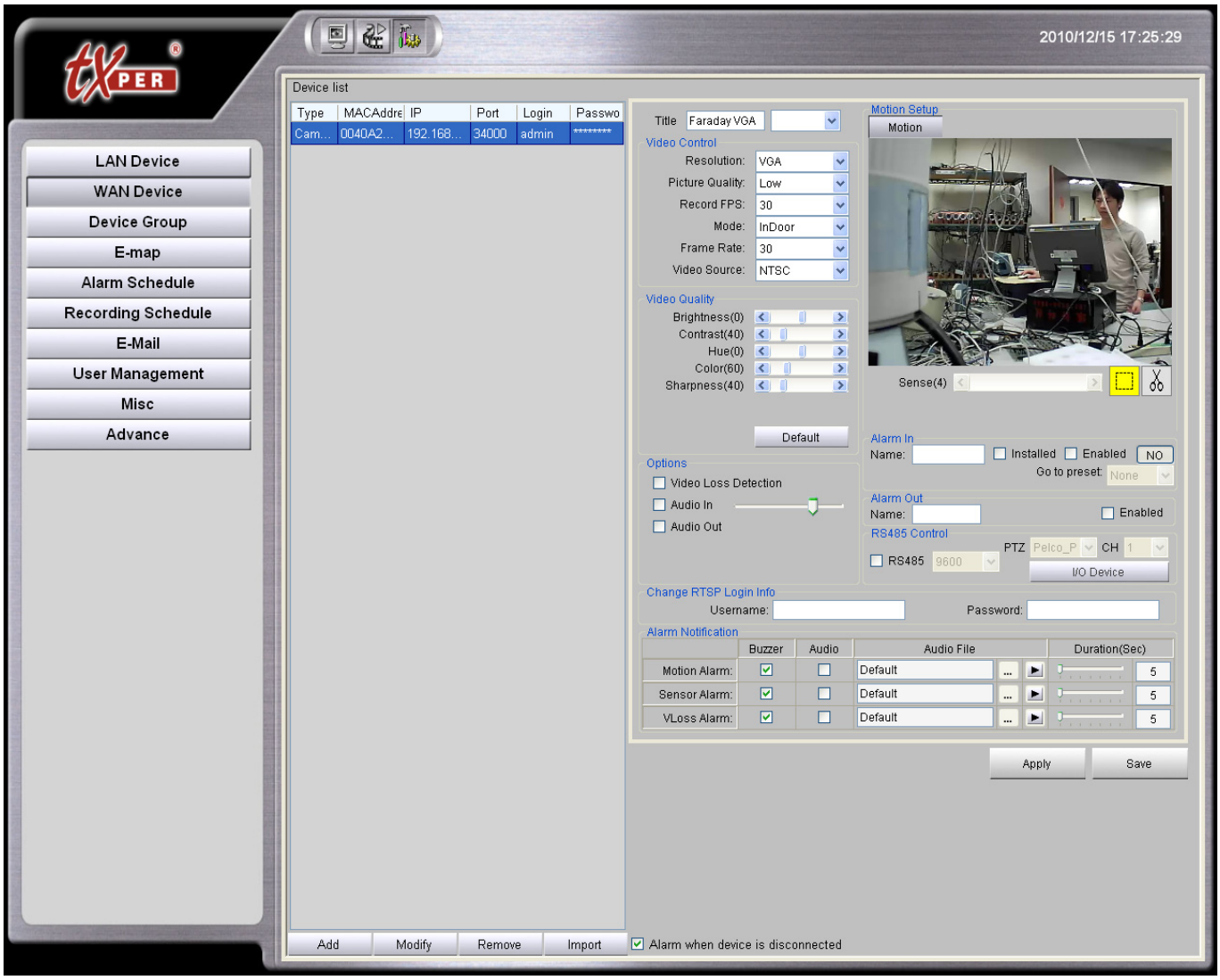
WAN Device

The WAN Device option allows you to connect the remote IP camera through the Internet.



Click on Add to input the WAN device connection settings.

Click on Modify to change the settings of the WAN device which you selected.

Click on Remove to delete the settings of the WAN device which you selected.

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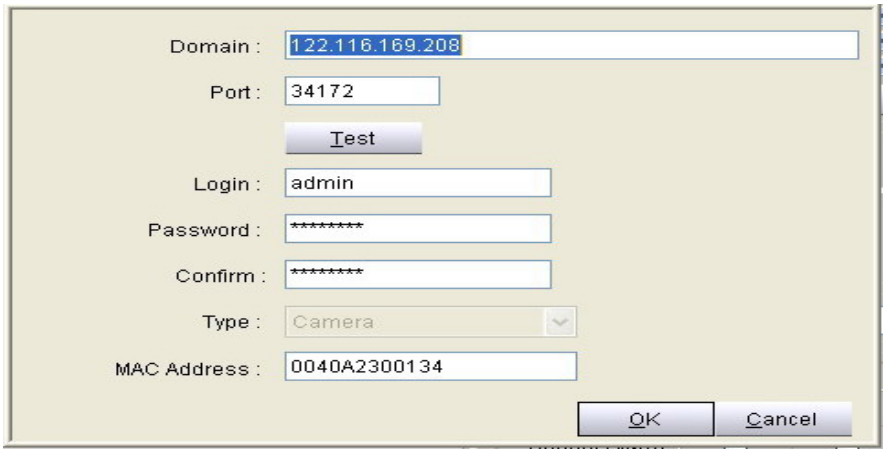
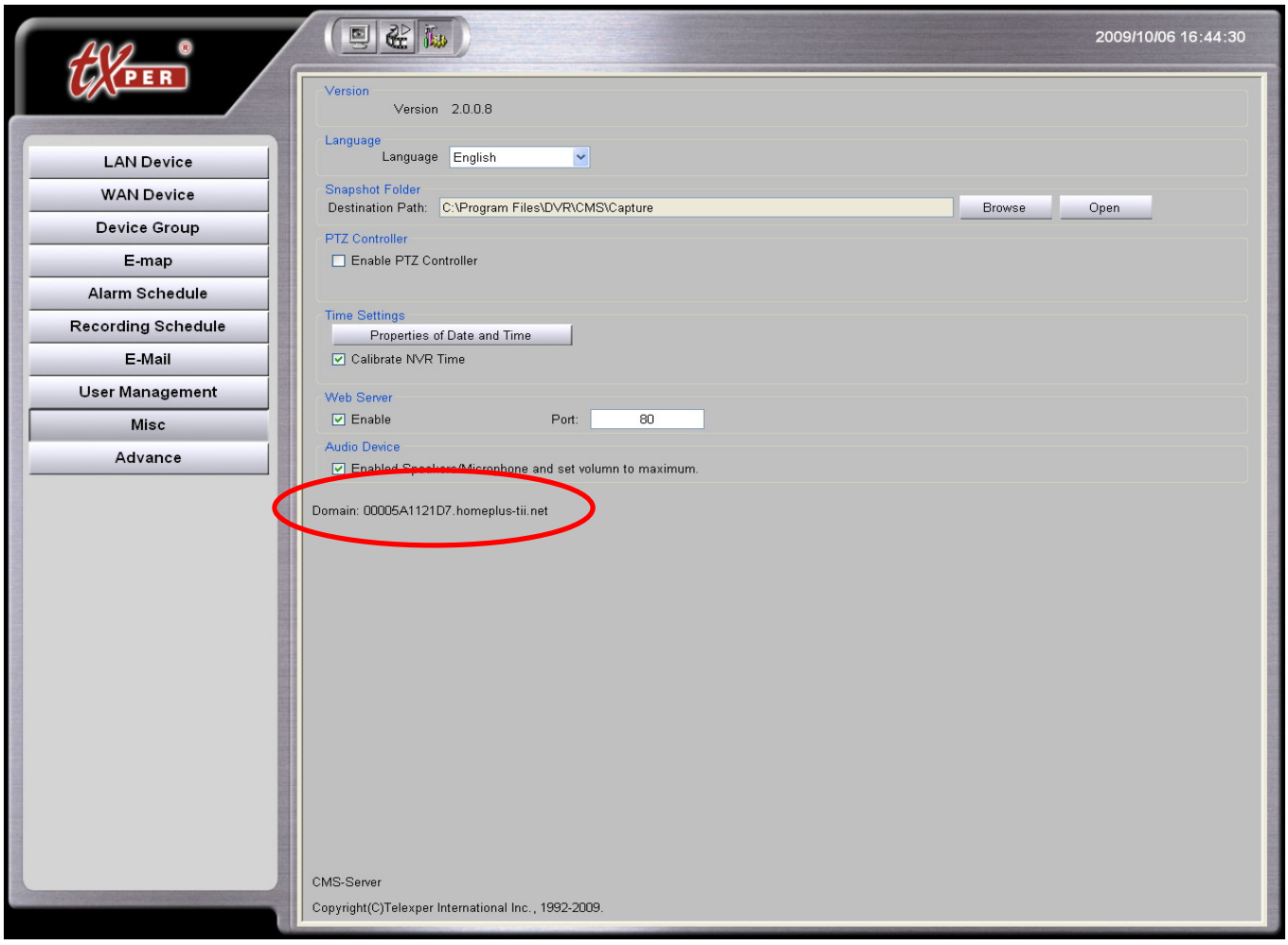
When you clicked the Add or Modify the WAN device settings menu will pop-up, then please select the of Camera.

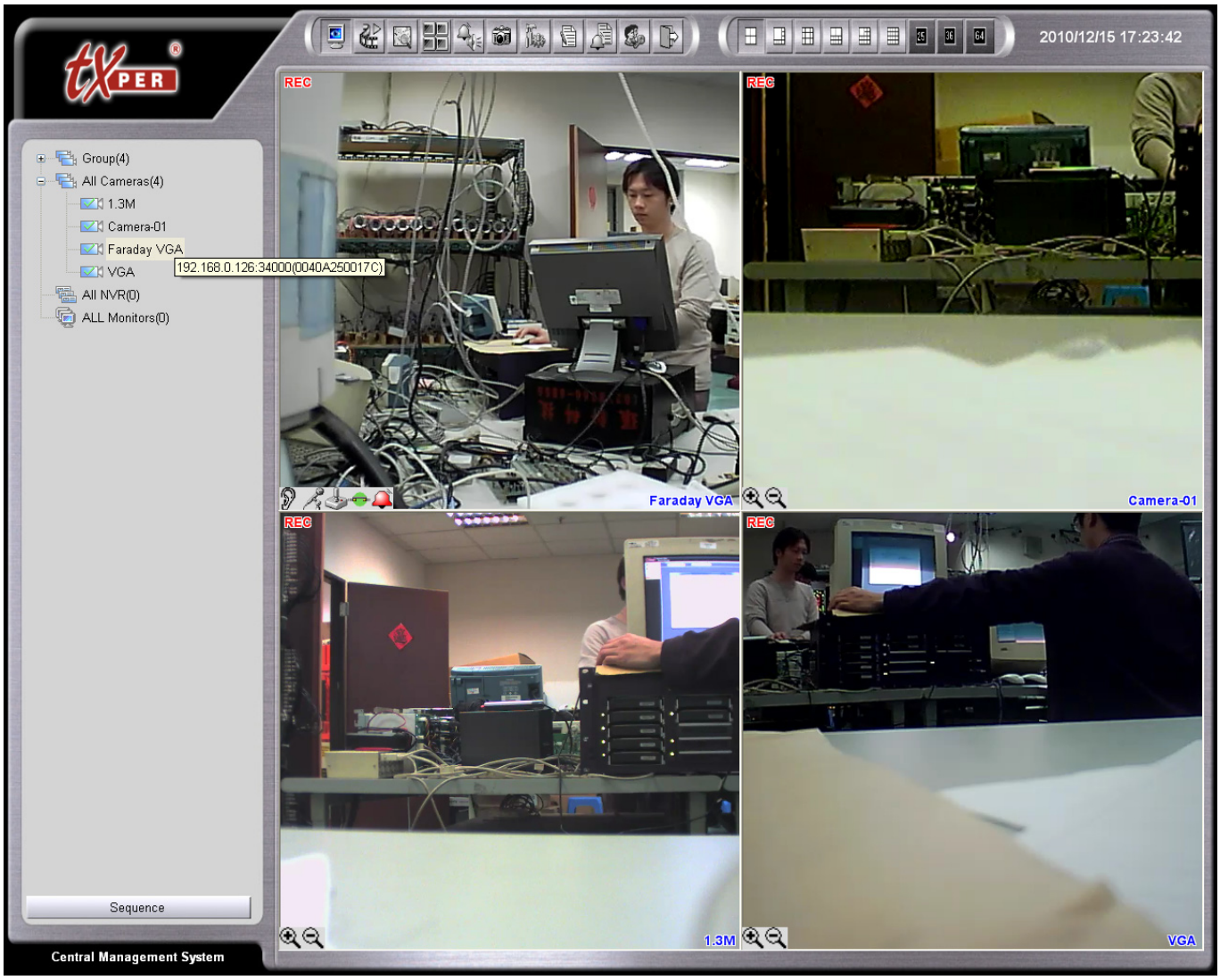


Input the Domain of the RemoteCMS server and the port which was assigned to the remote IP camera, also the login account with password of the RemoteCMS server.

(The Domain information could be found on the "**Misc**" page)



The port information could be found on the RemoteCMS server while you move mouse over the IP camera.



For example:

1. The IP address we found for the camera is 192.168.2.178 and local port is 34000. You can use 34000 plus the 178, and then it would be 34178. This number will be the WAN device port information for people to connect remotely.

2. After input those information then use the Test button to test the connection, if the connection is ready then the MAC Address of the remote IP camera will show.

3. When the test was done then please presses OK to add or change the IP camera's settings.

After all the remote cameras connected, you can manage and adjust setting of the cameras. About the settings please refer to the **LAN Device** settings pages.

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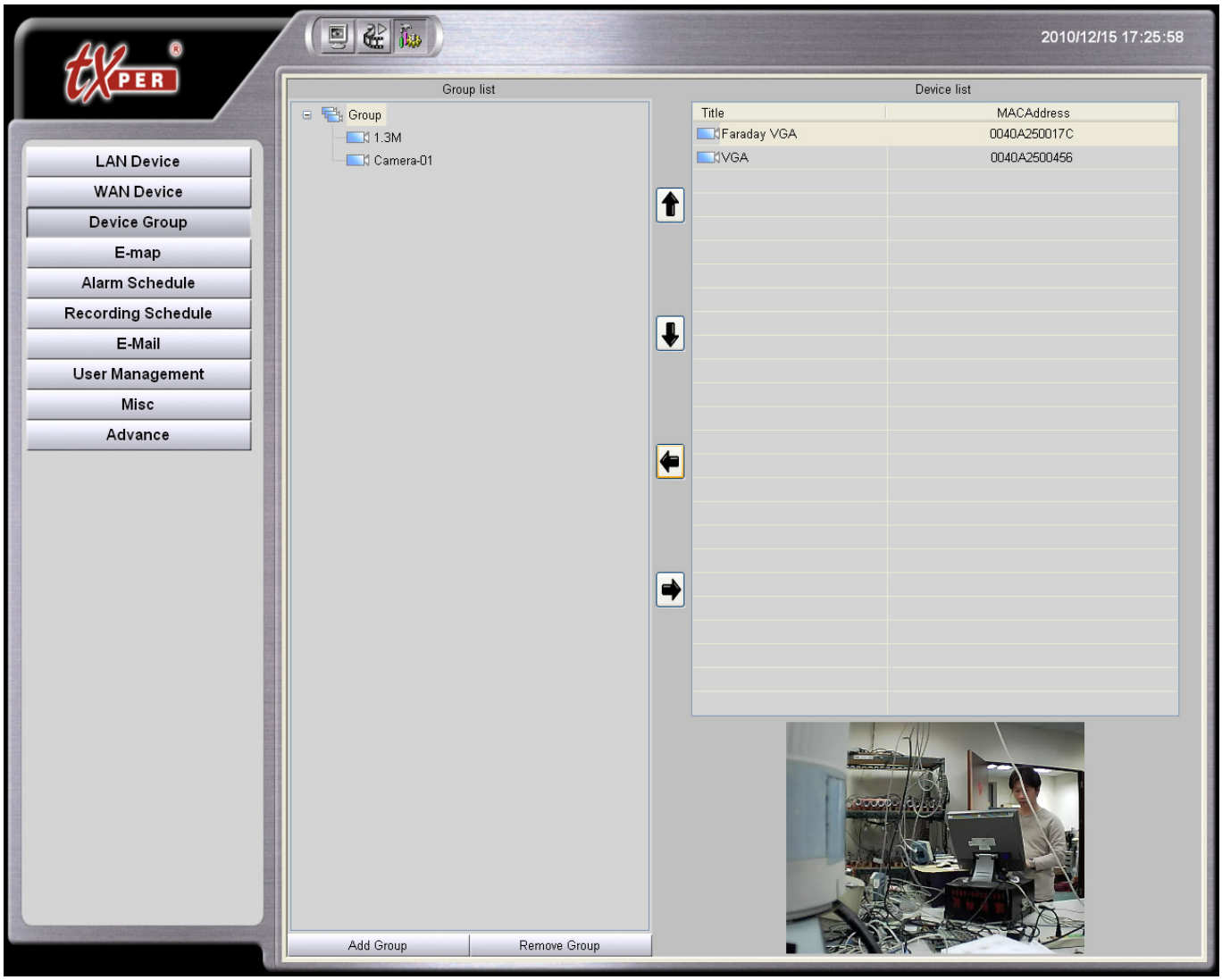
Device Group

Device group allow you to add and define the groups for all the devices, for you to management the cameras, monitors and network video recorder more convenient.



1. Add a new group by clicking **Add Group**

.
2. Click on **Remove Group**

to delete the selected group.
3. Move the selected camera up in the order.
4. Move the selected camera down in the order.
5. Select one device from the **Device List** and then click to add to the selected **Group List**.
6. To remove devices from the **Group List**, select the desired camera and then click .

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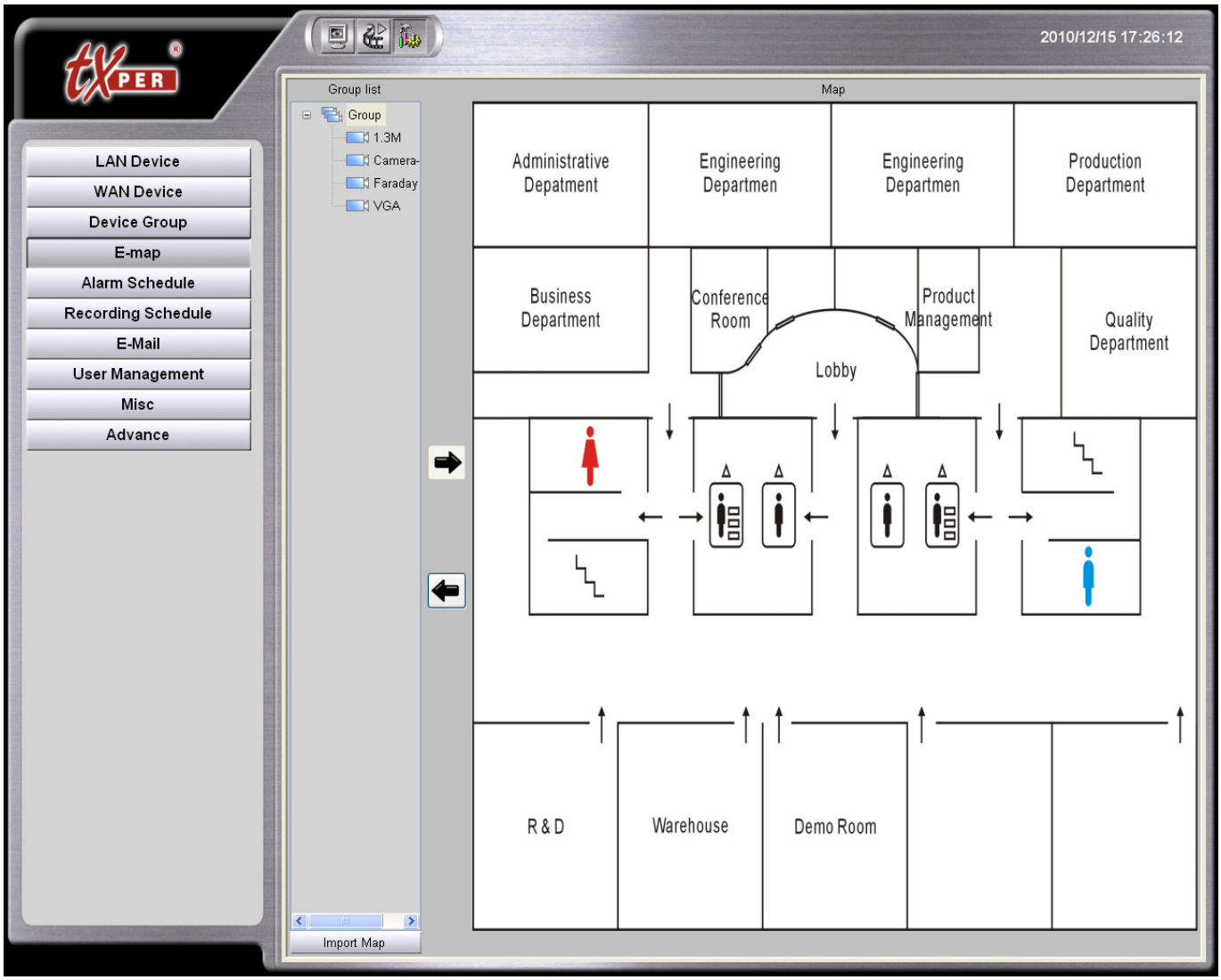
E-map

E-map helps you to installed cameras and devices from a floor map. You could set up one E-map for each camera groups.



1. Select a device group.
2. Click the link on the screen or click **Import Map**. Choose a map file from the folder to upload or update E-map. The map format could be BMP or JPEG.
3. Locate devices on the E-map

- Drag and drop device icon to the desired location. Camera with Alarm In and Alarm Out settings will have an Alarm In icon and an Alarm Out icon next to the camera icon. (For the settings, please go to **Alarm In and Alarm Out Setting** in this chapter)
- To relocate the device, simply drag and move the icon on the E-map

* Once the E-Map setting of the device groups is done, we can enable the E-Map mode on the Live-View.

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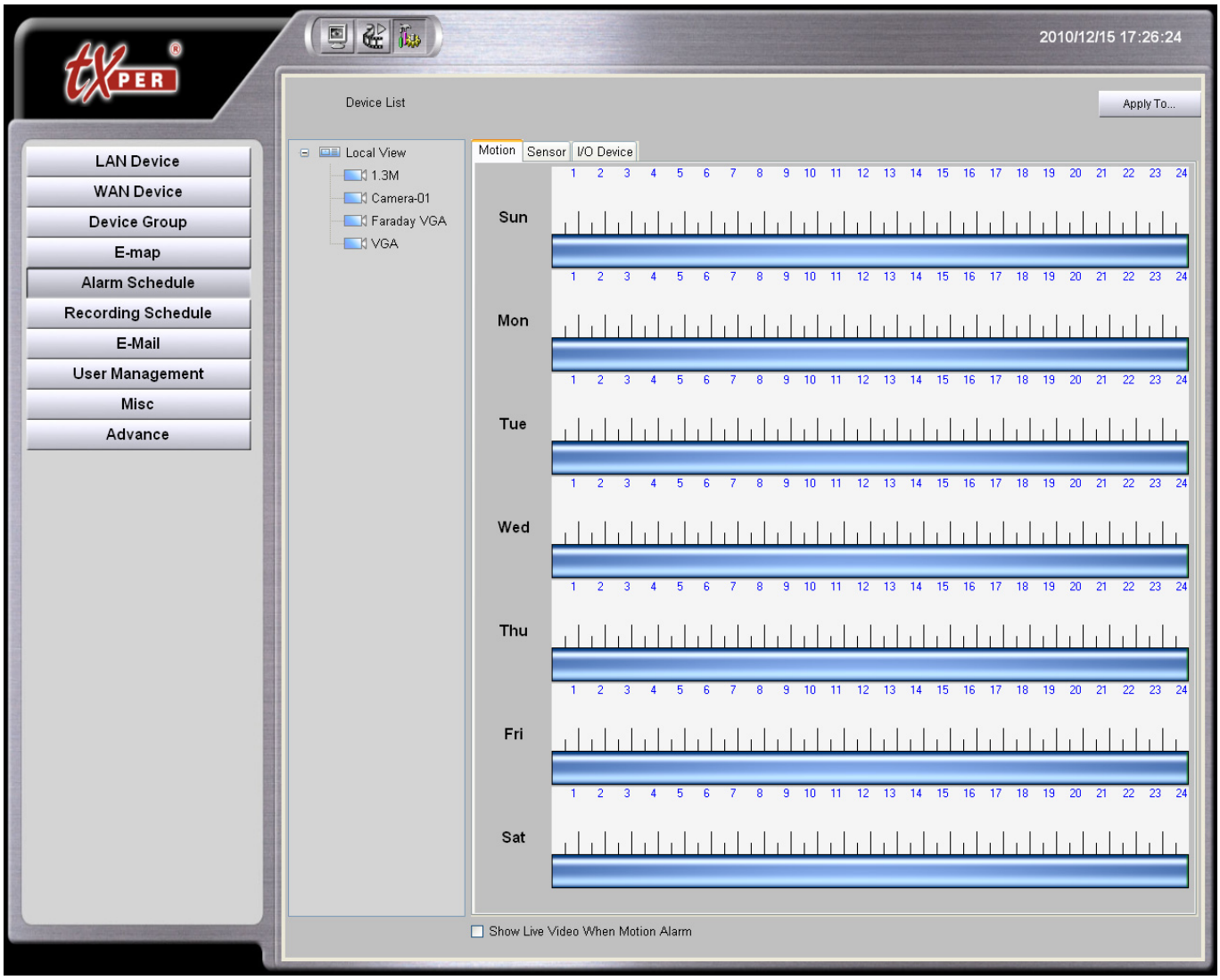
Alarm Schedule

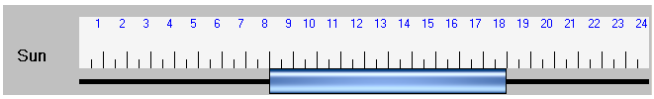
CMS allows you to set up a schedule to for motion and sensor alarm.



1. Select one device from the **Device List**.
2. Select alarm type tab: **Motion**, **Sensor**, or **I/O Device**.
3. **Setup Alarm Schedule**

   Draw time bar to schedule alarm activation for each camera.

   Example: 08:00 - 18:00 Sunday REC



4. **Import From**: Click **Import From** to apply other camera's schedule to the current selected camera.
5. **Apply To:** Click **Apply To** to apply current camera's schedule to other cameras.

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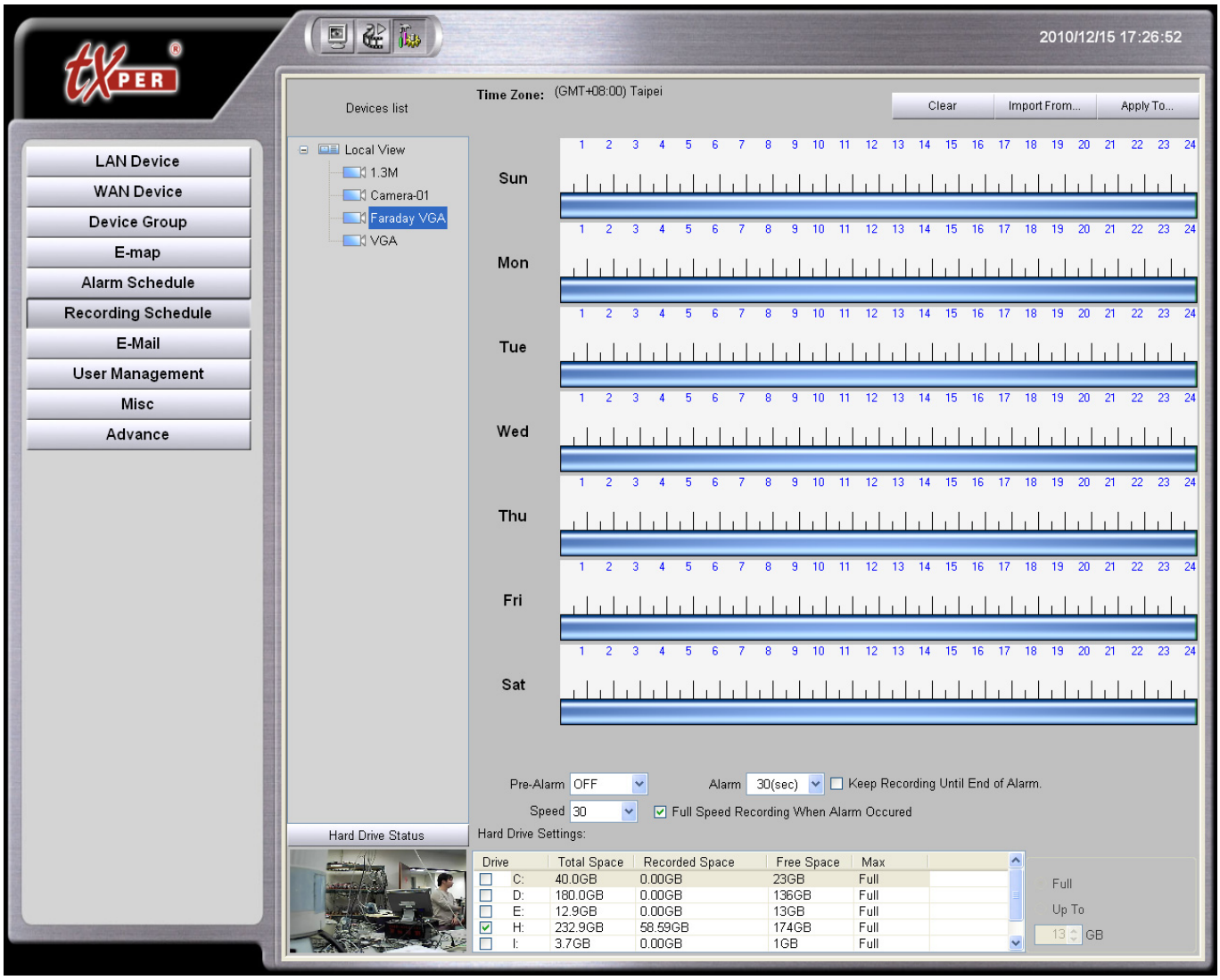
Recording Schedule

Recording Schedule function is only available when there is connecting with the NVR.



1. **Hard Drive Selection:**

   Select the **Hard Drive** you want to save for recording video/audio files.

   CMS will display the **Estimated Total Hard Drive Storage** automatically.

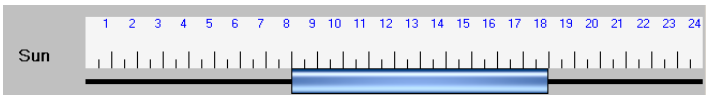
2. **Setup Storage Space:** At least 1GB shall be reserved for REC.
3. **REC Speed Setting:** Recording speed: 1~30 fps for the cameras
4. **Full Speed Recording When Alarm**

   Check on the box to enable Full speed recording (30fps) when alarm.

5. **REC Schedule Setting**

   Draw time bar to schedule and enable video/audio REC for each camera.

   Example: 08:00 - 18:00 Sunday REC



6. **Storage Space Check**

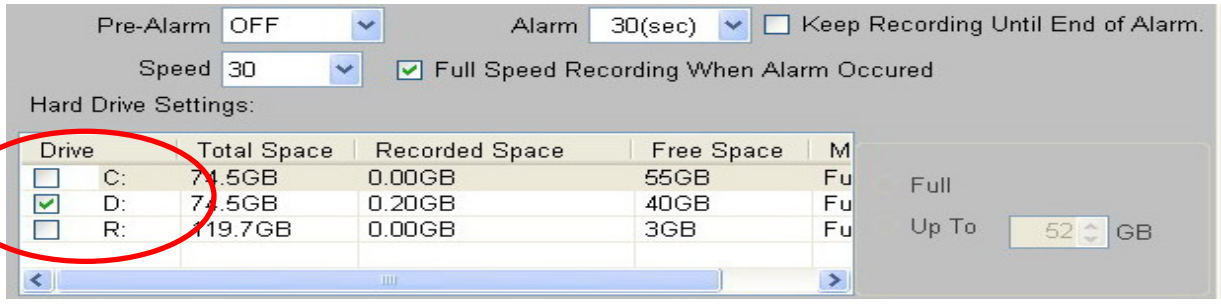
During the schedule settings, the system will automatically display the required Hard Drive Space.

CAUTION The following message will pop up if the estimated space has exceed the allocated hard drive space.

Please note that the estimated required space has
exceeded the maximum space allowed for recording.
Home+ will be using the recycle technique

CAUTION

1. Please make sure that the designated Hard Drive space is greater than the estimated space for recording. **We do not recommend to set up the recording space on the Drive C:**.
2. The system will begin to recycle recording mode when the recording space is full.



Alarm Recorder

Pre-Alarm Save the footage (0-10 second) **before** the alarm.

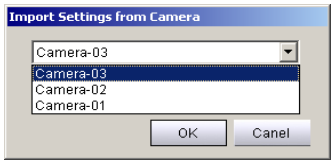
Alarm Save the footage (up to 60 second) **after** the alarm.

The default recording time is 30 seconds.

Check the**" Keep Recording until End of Alarm"** up; CMS will not consider the settings of **"Pre-Alarm"** and **"Alarm"**, CMS will record **"Pre-Alarm"** 10 seconds and "**Alarm"** 60 seconds.

Clear

Click **Clear** to remove checked cameras' schedules. Select the desired cameras and then click OK.

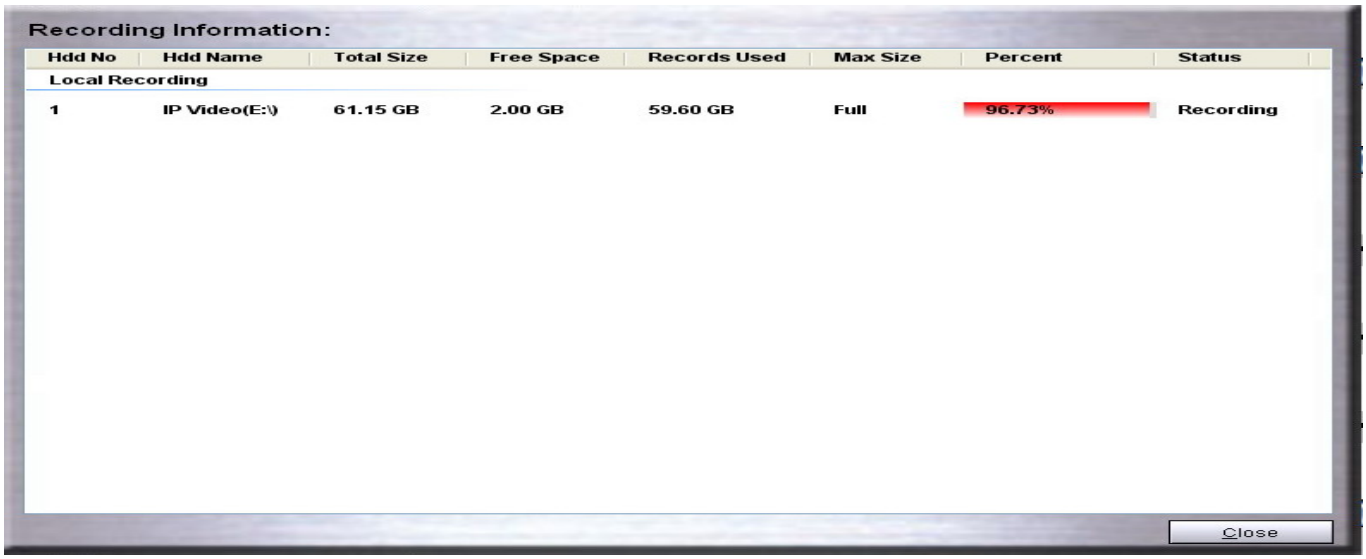


Click **Import From** to apply other camera's schedule to the current camera.

Apply To

Click **Apply To** to apply current camera's schedule to other cameras.

Click on the Hard Drive Status will pop up the Recording Information window. It will list all the Hard Disk information on the list



HDD No : By the HDD attached order.
HDD Name : As Windows system default.
Total Size : Add total size which depends on the HDD spec.
Free Space : The space left.
Records Used : The space which the recorded files had already taken.
Max Size : The size of the HDD which you defined for recording.
Percent : The HDD percentage of the recorded files.
Status : The recording status of the HDD.

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E-Mail

1. Input user (sender) name, sender's email address, sender's SMTP server and sender's email account's user name and password.
   If you have Outlook/Outlook Express installed on CMS already, click **Import** for email account information.
2. **Send Mail if Alarm Occurred**: Check this box to enable email notification when an alarm is triggered.
3. **Attach Image**: Check this box to attach alarm image to the email notification.
4. Enter a subject for your email in the **Subject** field.
5. Click **Add Mail Address** to insert and add recipient email address.
   Select existing email address and click **Remove Mail Address** to remove.
6. Click Send to send a test message.

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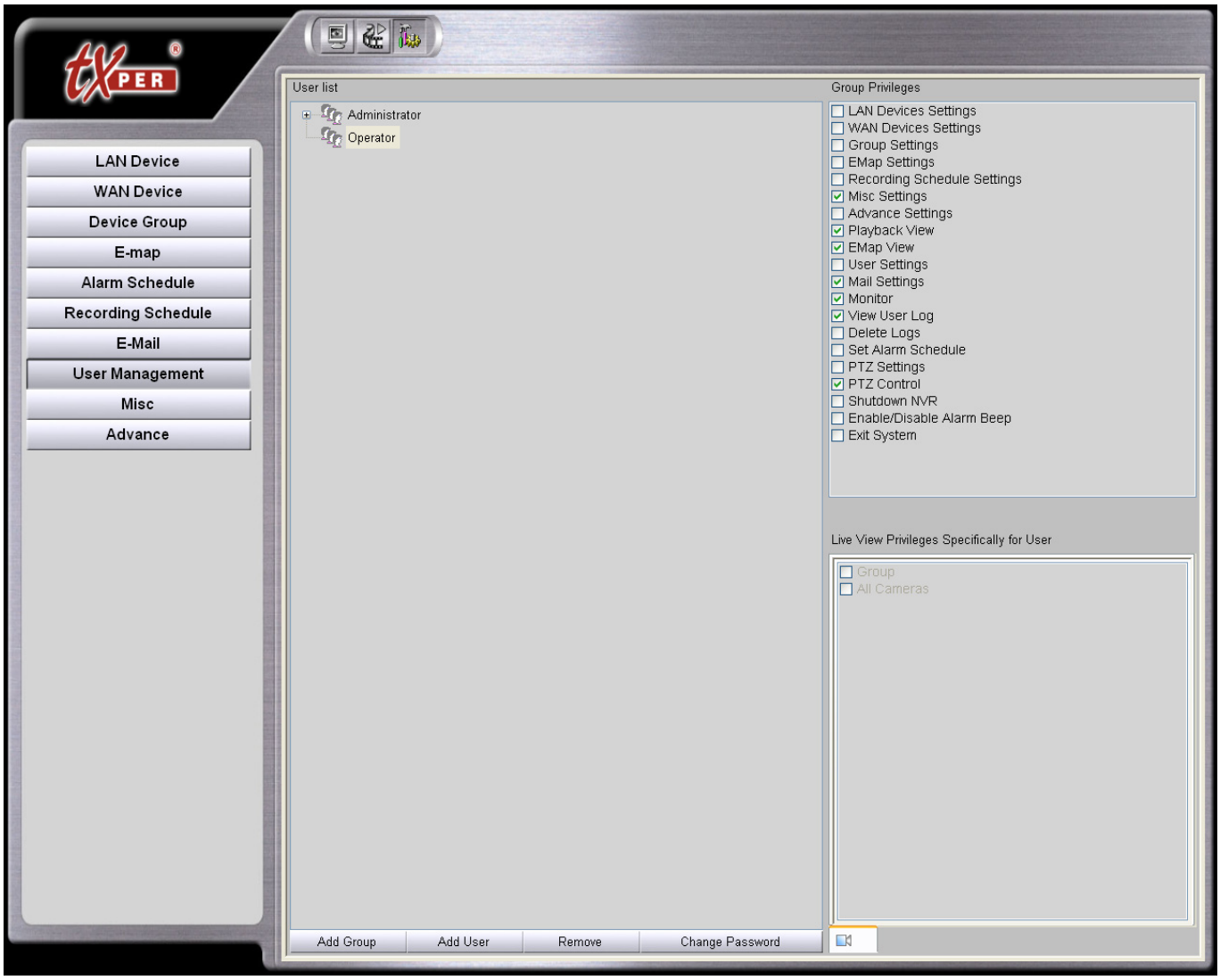
User Management

User Management helps establishing authorities for each user and group.



1. **Add Group** Add Group **:** Click **Add Group** to create a new group.

   Add User Add User **:** Select a user group you want the new user to be under and click **Add User** to create a new user, and **Password**

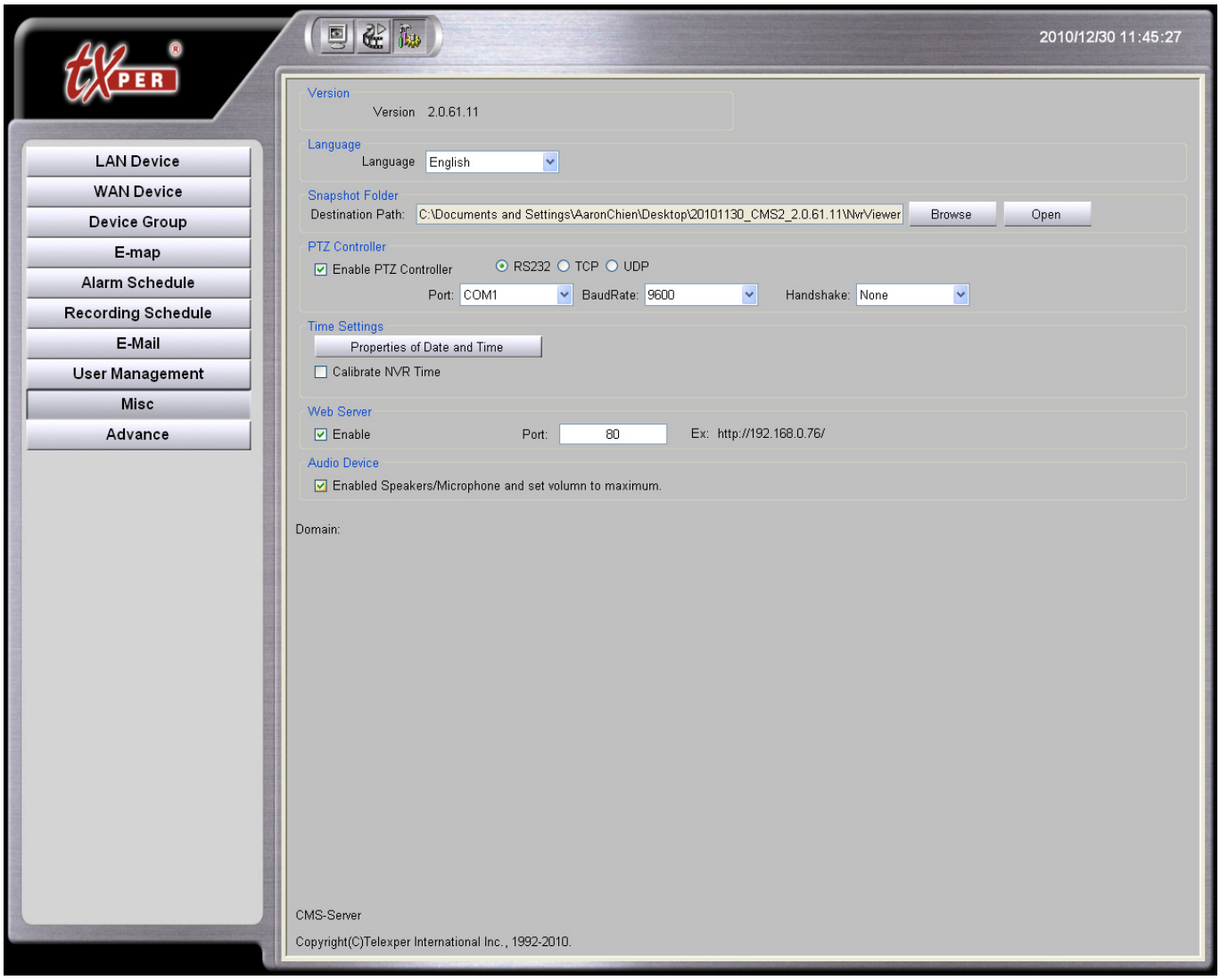
2. **Remove** Remove **:** Select a member or group and click **Remove**.

3. **Change Password** Change Password **:** Select a user and click **Change Password** to update user password.

4. **Privileges** Group Privileges **/** Live View Privileges **:** Select a user group, check or uncheck the **privilege boxes**, and then click **Save** to confirm. Please note that all changes will apply to all the users in that associated group.

Miscellaneous

Miscellaneous page listed the language settings, PTZ settings, SNTP settings and etc.



1. **Version**: It will show the version of CMS.
2. **Language**: Scroll down the language bar and select the language for the system.
3. **Snapshot Folder**: Click Select and choose a folder for the saving the snapshots.
   Click **Open** to view saved snapshot images.
4. **Enable PTZ Controller**: Check on the box for enabling the PTZ controller feature Port, Baud rate.
5. **Time Settings**: Check on the box to synchronize, automatically an internet time server.
6. **Web Server**: Check this box to enable web server to connect to CMS.
7. **Audio Device**: Check this box and the CMS server will output audio with connected speakers while the CMS server got alarms.

Domain shows the domain name which this server had registered.

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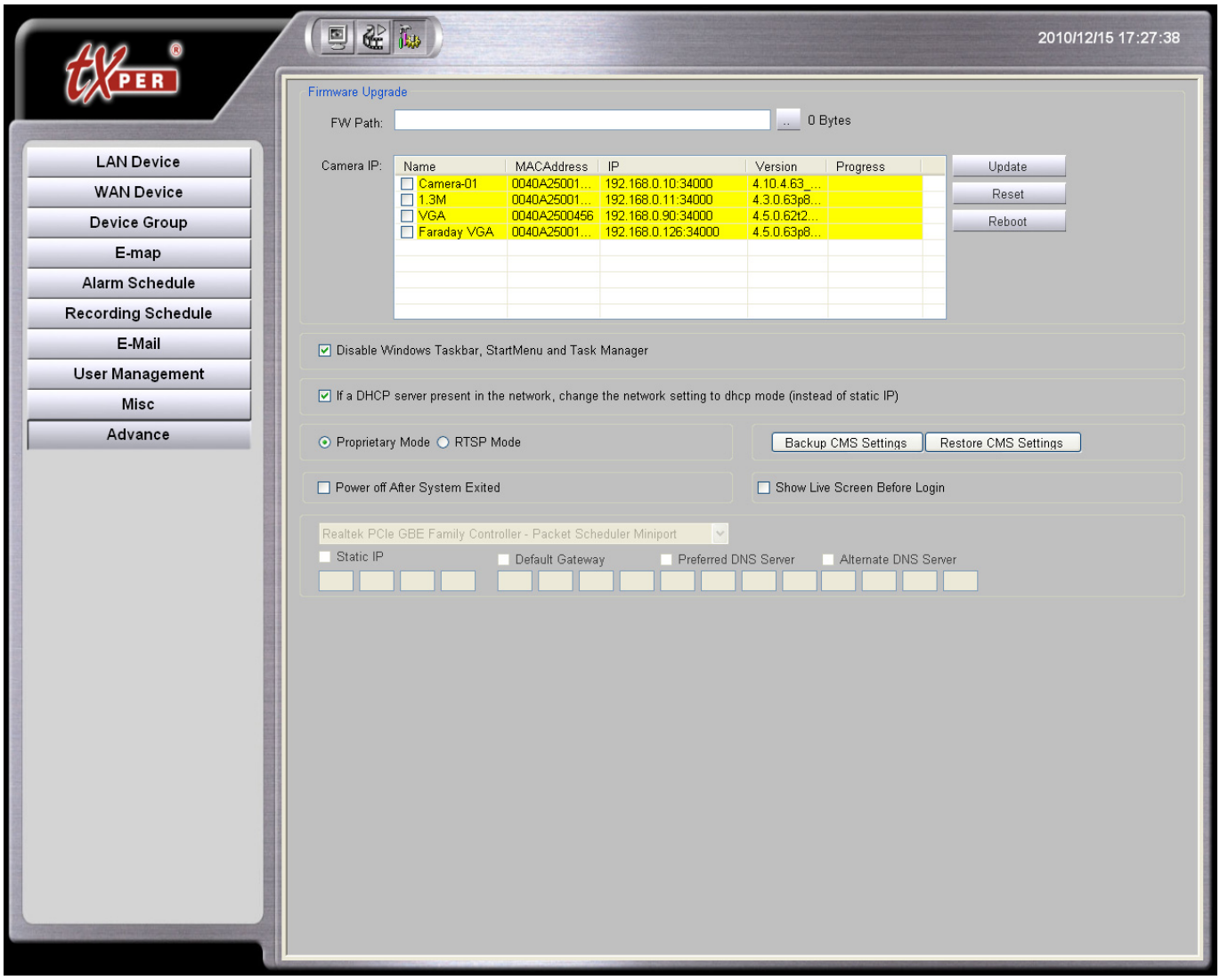
Advance



1. **Firmware Update**: You can update the selected cameras with Firmware Update. Enter the FW path, check the boxes of the cameras you wish to update, and then click **Update**.
2. **Reset**: If you encounter IP conflict after LAN setup, you may reset your whole system to the initial status. Click Reset button to reset the system.
3. **Disable Windows Taskbar, Start Menu and Task Manager**: Check on the setting to disable the keyboard “Windows” button, disable the “Start Menu” pop-up function, and disable the “Task Manager” function.
4. **If a DHCP server present in the network, change the network setting to dhcp mode (instead of static IP)**: If in the network there is a DHCP who allocate IP, then system will automatically change network setting to DHCP mode.

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5. **Proprietary Mode/RTSP Mode**:
   Proprietary Mode: This is the default mode that CMS do internally communicate with our products.
   RTSP Mode: This is the convenient mode that all hardware and software are able to do independently communicate together with supported RTSP without using CMS.
6. Backup CMS Settings: Save the backup file (.bak) to the desired directory.
   Restore CMS Settings: Import backup file (.bak) to the current CMS. The system will automatically restart.
7. **Power off After System Exited:** Check this box to power off the system when users exit the system.
8. **Show Live Screen Before Login:** Check this box to enable system to display live screen before login.
9. For LAN network without DHCP, please uncheck the option of "**If a DHCP server present in the network, change the network setting to dhcp mode (instead of static IP)**", and then insert information such as Static IP and Default Gateway.

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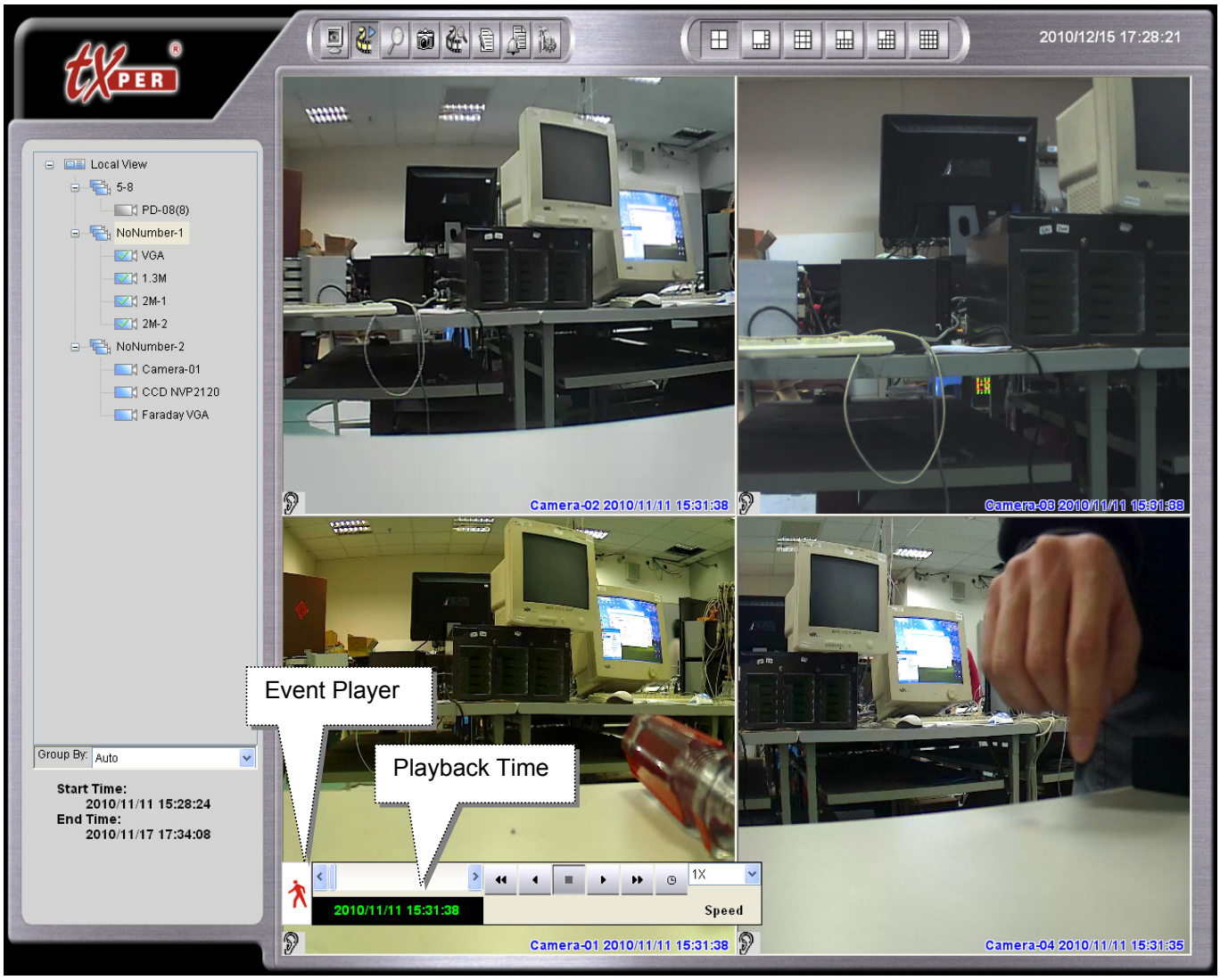
Chapter 8 CMS – Playback Mode

Playback function is only available when there is connecting with the NVR or Local CMS server.



When you click the Playback button on the control panel on the top of Live View Screen, it does pop-up the window for you to select Play NVR Records / Play Local Records / Exit.

Then the CMS server will connect to the video recording database and display all the recorded video flies of the cameras from NVR or Local server

Note: CMS-Ultimate must connect to the extended storage devices (No Local Records) and it does not pop-up the window below the picture.

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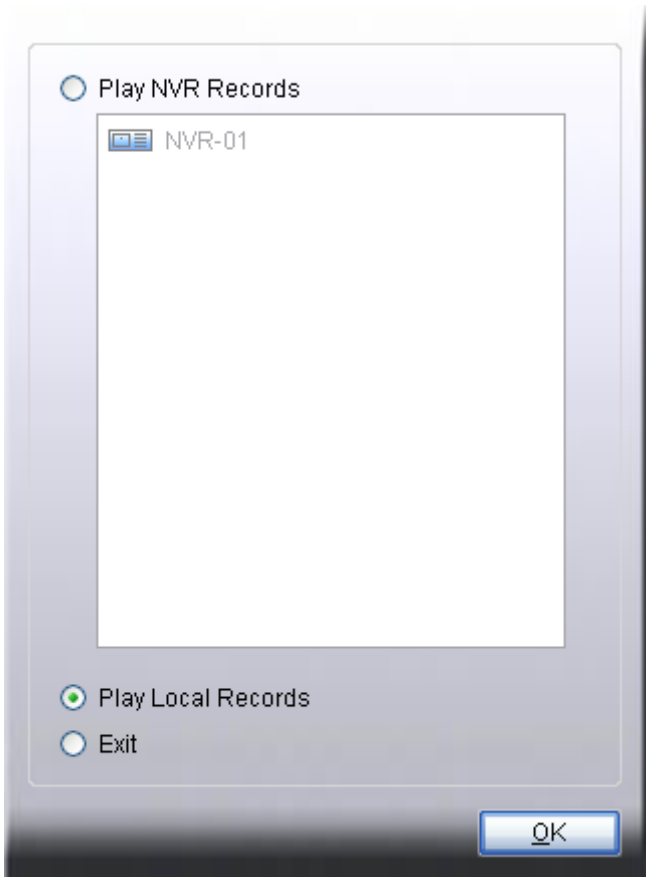

Then the CMS server will connect to the video recording database and display all the recorded video flies of the cameras from NVR or Local server according to the recorded video images from the cameras which you have selected might be different from Live-View.

The Playback mode of the CMS helps you to easily display those channels which you want to review by group.

1. Group By: Auto : The system will display the cameras according to their names consequential order (warehouse-1, warehouse-2, warehouse-3 …etc.) to play back. You can click on each group title to play the recorded image simultaneously in channels of 4, 9, 13, 16, 32 and so on.
2. Group By: NoSort : The system will display the cameras randomly (warehouse-1, purchase-2, production-1 …etc.) to play back. You can click on each group title to play the recorded image simultaneously in channels of 4, 9, 13, 16, 32 and so on.
3. Group By: Device Group : The system will display the cameras according to their GROUPS' consequential order (Group-1, Group-2, Group-3 …etc.) to play back. You can click on each group title to play the recorded image simultaneously in channels of 4, 9, 13, 16, 32 and so on.

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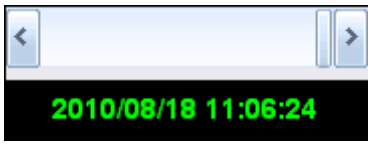
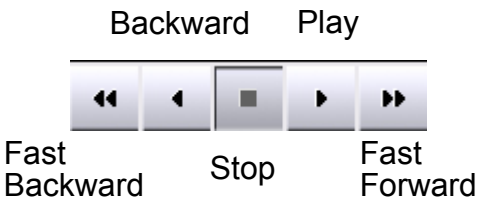
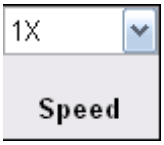
Basic Playback

1. Scroll the **Play Control Bar** 

to the desired time, and click to play the footage.
2. Playback Control

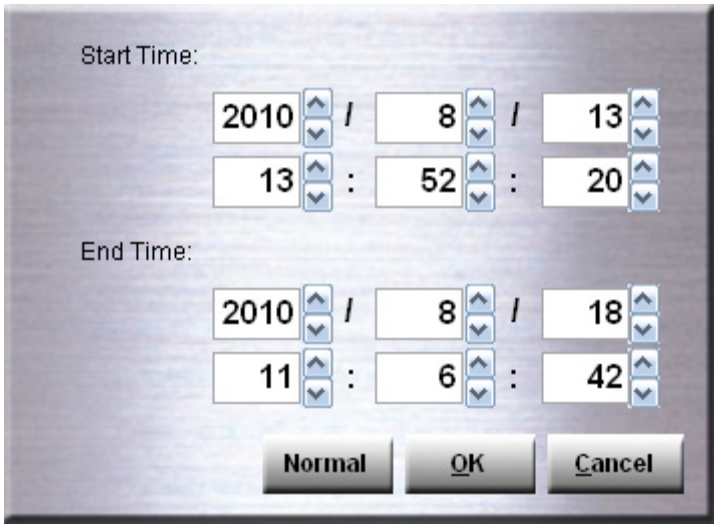


3. Click on the play speed bar to adjust the speed (1X, 2X, 4X, 8X) of playing the footage.



Time Search Playback

1. Click **Time Search** button .
2. User can input the desired start time, or click **Advance** to setup a time range to search
3. Click **OK** to start.



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Event Playback

You can easily watch all alarmed videos with **Event Player.** Click on the icon to switch to the Event Player for motion and sensor alarm events.

Motion: To search for motion alarms from the alarm log, left-click and right-click mouse to search for the previous and next alarm accordingly.

Sensor: To search for sensor alarms from the alarm log, left-click and right-click mouse to search for the previous and next alarm accordingly.

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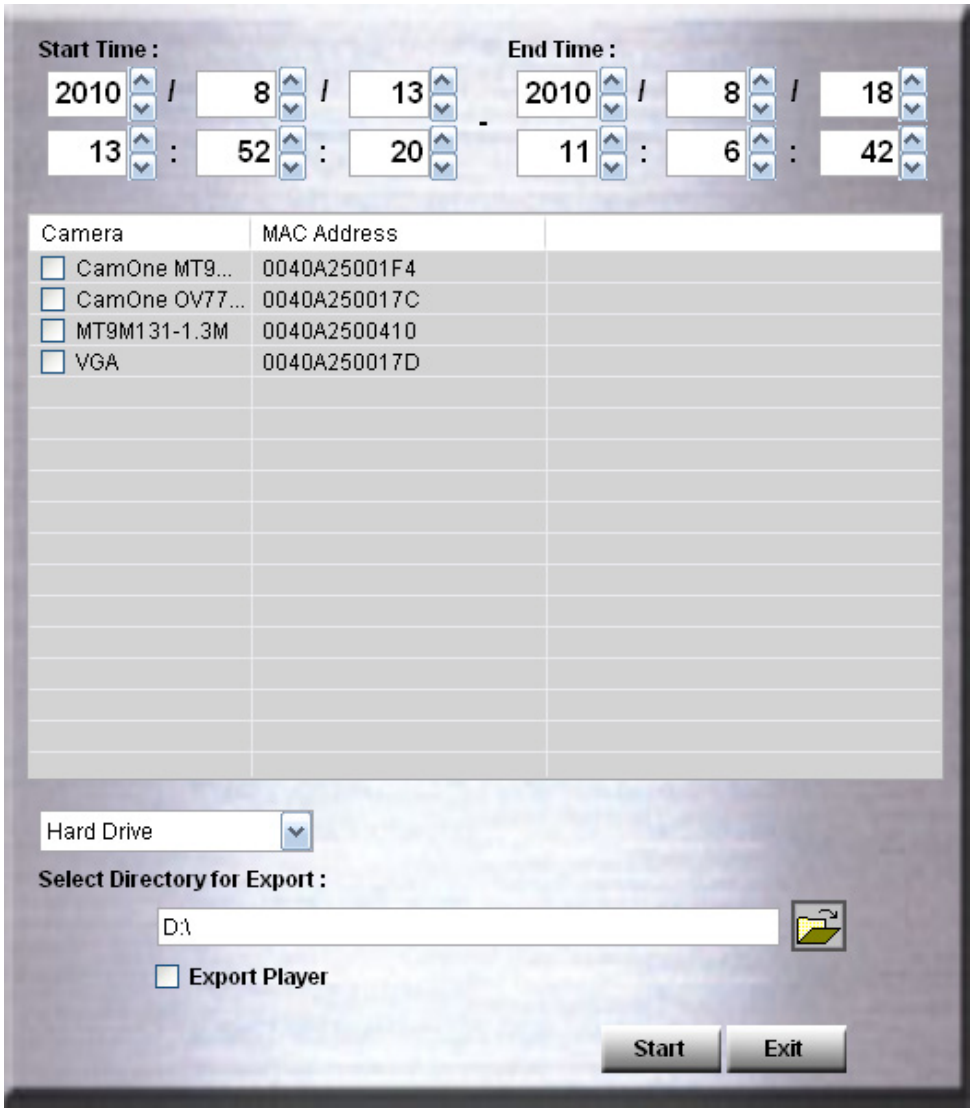
AVI Export

1. Click AVI button, and Key in Time Range



2. Then select the directory where you want to save the exported files.
3. Click "**Start**" Start to execute the command.
4. When the "Finished" is showed on the status bar, then, the AVI export is completed.
5. Then click the "exit" to leave the AVI Export

Note: The exported AVI file has to be played by CMS Player and could not be played by Windows Media Player. For first time CMS Player installation, check on the "Export Player" box. Selected footages will be saved under the designated directory and the CMS Player will be installed and a shortcut

will be created on the Windows Desktop.

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Playback Main Menu Buttons

Live

Click **Live** button to return to CMS Live mode.

Listen

Select one channel and then press **Listen** button to play the recording. Click again to disable the function. Please make sure the **Audio In** box under **LAN Device** is checked.

Image Editor

CMS can take and save a single screenshot at the maximum resolution for the selected channel. During playback, click the **Snapshot** button to call out the image editor. You may zoom in/out of the image, adjust image resolution (manual, optimized, or default setting).

OPTIMIZE: Auto adjust the picture settings.

DEFAULT: Restore the default settings of pictures.

PRINT: Print the picture.

SAVE: Save picture to file.

CLOSE: Close the image editor.

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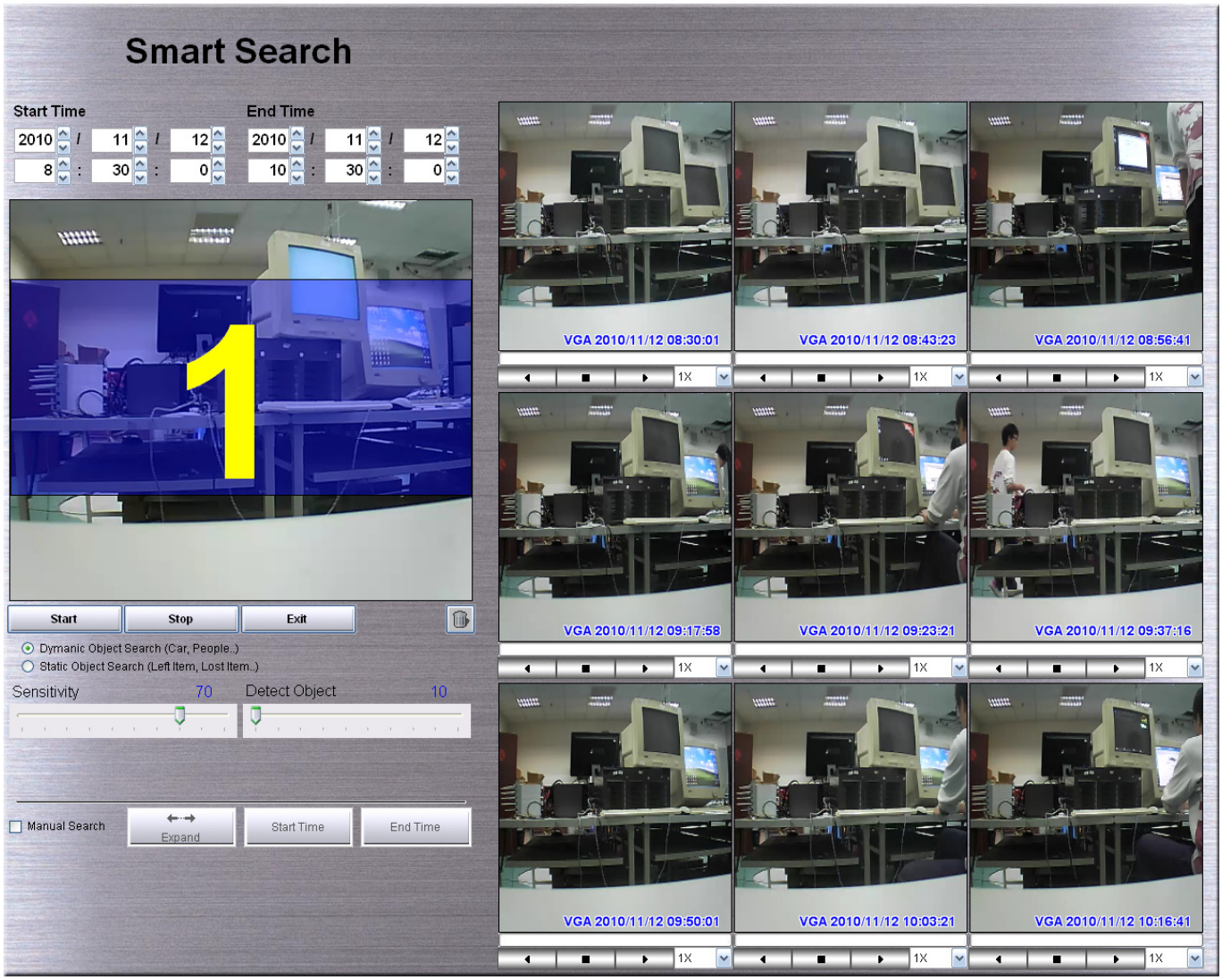
Capture

CMS can take and save a single screenshot at the maximum resolution for the selected channel. Click a channel on the live screen and then press **Capture** button to save the image as a JPG file. To view or change the image folder, go to **Setup, MISC** to update the **Snapshot Folder**.

Smart Search

Smart Search provides a narrower search function.

Note: CMS-Lite free software does not support this function.



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1. Select channel from the Playback page that you would like to search on.
2. Click on **Smart Search** icon to pull out the Smart Search page.
3. Left-click on the screen and move the cursor to frame the motion detection area.
4. According to the sensitivity and detect object ratio, check on **Dynamic** or **Static Object Search** box. You may adjust the Sensitivity (1-100) bar and Detect Object Ratio (1-100) bar if needed. Detect Object Ratio is the degree of changes of the framed area you selected in step #3. The higher the degree, the fewer results will be found.
5. Click **Start** to start searching. The search results will show on the right screen.
6. Use the Playback Control to play/backward/stop the video. You may double-click on one of the search results to play the footage on Playback screen.
7. Check on the **Manual Search** box for narrower search:
   a. Select one result from the 9-grid screen and click Start Time. Select another result from the 9-grid screen and click End Time.
   b. Click Expand to execute more detailed search.

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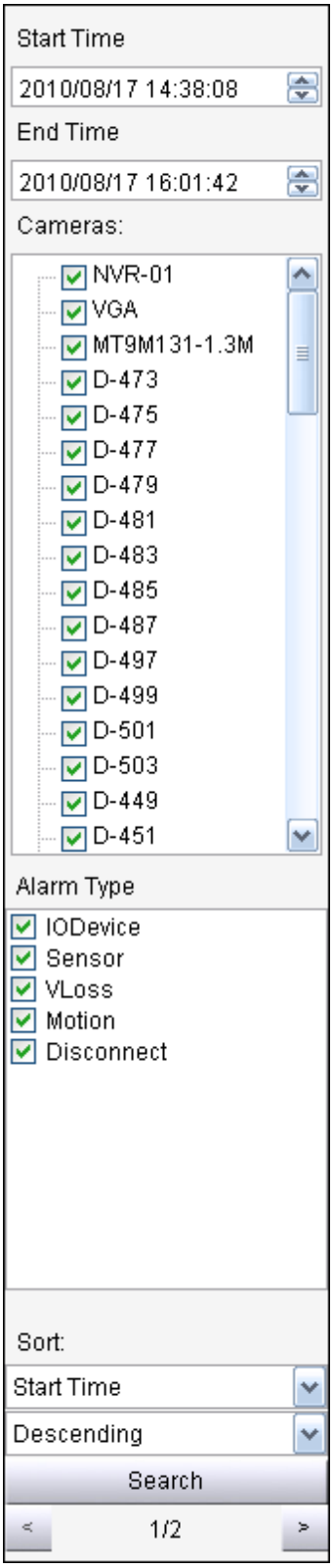
View Log



Alarm Log allows you to see all events with camera name, alarm type, start and end time.

1. Click **View Log** from the main menu.
2. Adjust Start Time, End Time, Alarm Type, and Sort Order to filter the search. Click **Refresh** to confirm the criteria.
3. Double-click the alarm log to start the video/audio playback.
4. Click **Cancel** to exit.

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Alarm List

Alarm List shows the 50 latest alarm messages. Click the highlighted event to acknowledge the alarm. Check **Popup when Alarm Occurred** box to bring up Alarm List when an alarm is triggered.

You may update the status of the new alarm to Unresolved, Resolved or Pending. Once the status is updated, the event will be removed from the Alarm List. To further update the status of the alarm event, you will need to go to **Alarm Log** , which contains the full list of alarm events.

Setup

Press the Setup button to go to the CMS setup page.

Screen Display

Supports the 4/8/9/10/13/16/25/36/64 display **(CMS Lite version supports 16 display, Hybrid 16 version supports 36 display, Hybrid 32 version supports 64 display)**

For Full-Screen Display, please help to click directly on the desired channel to select then click again to switch to full-screen. Click again to return to the previous screen display.

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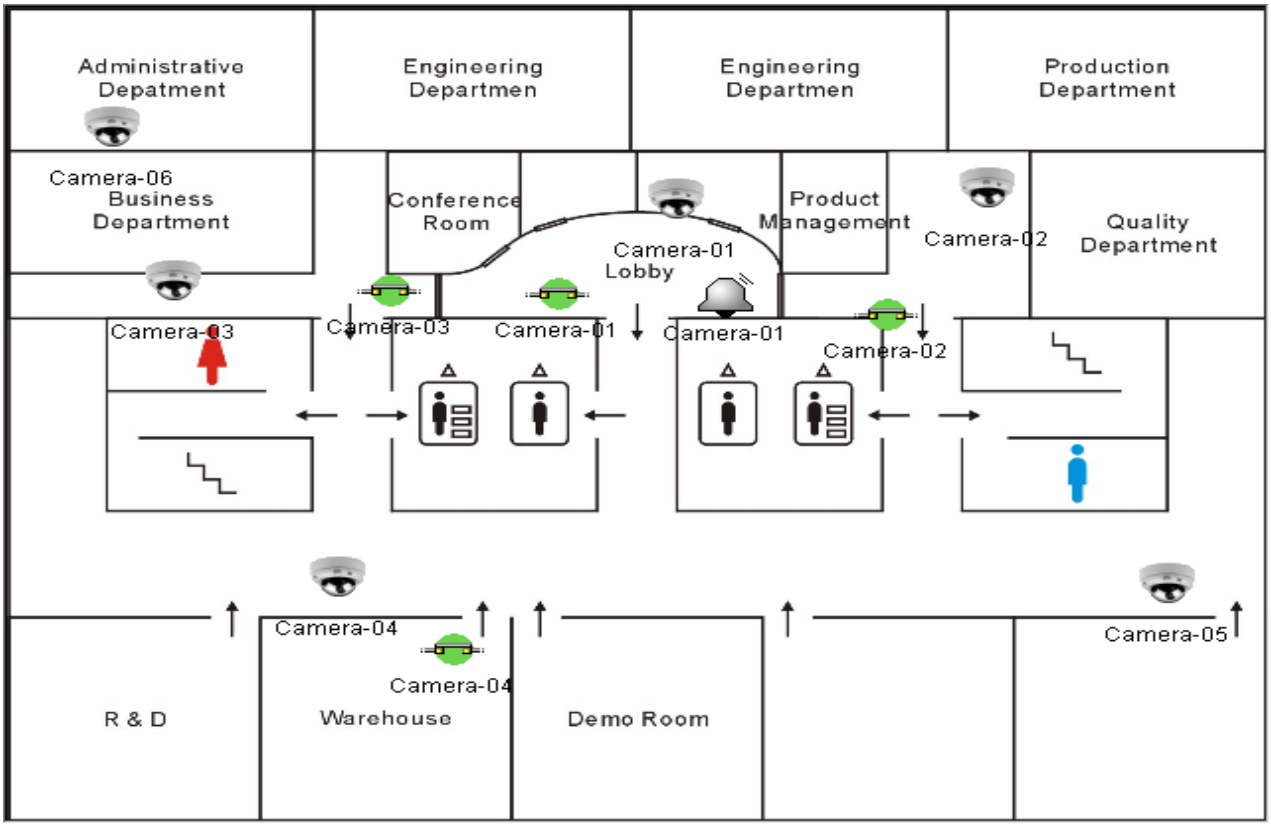
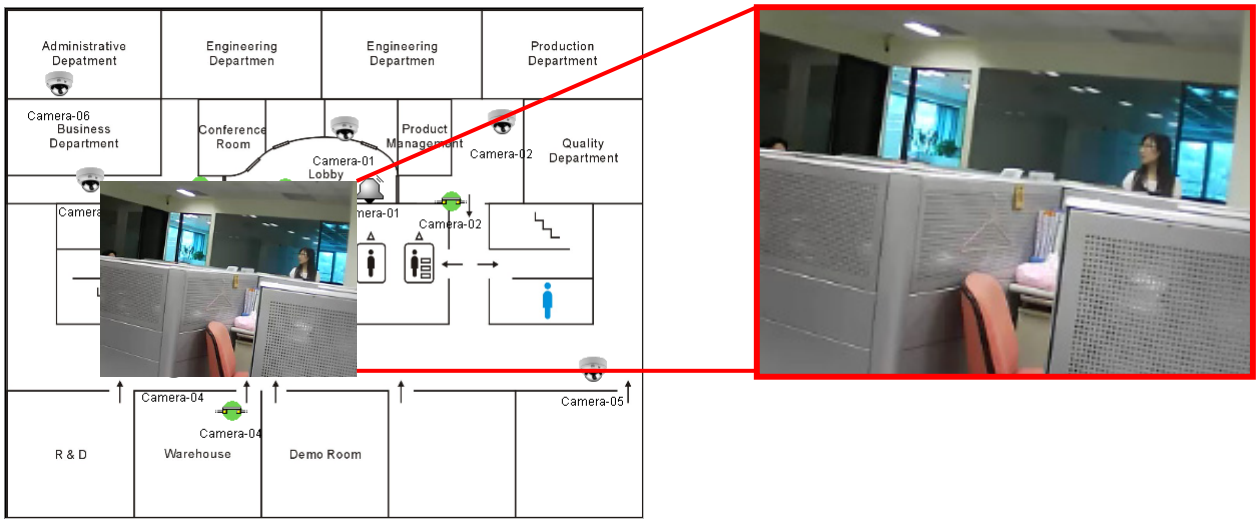
Chapter 9 CMS – E-Map Mode

E-map helps you to view the installed cameras and devices from a floor map of each group.



Camera: You could click the camera icon on the E-map and highlight the live video of that particular camera. Right click on the mouse button on the cam could directly see the small size camera image on the E-Map.



Alarm: When the alarm is raising the camera icon will display in red and the display of the live view screen will also jump to display the alarm camera image.

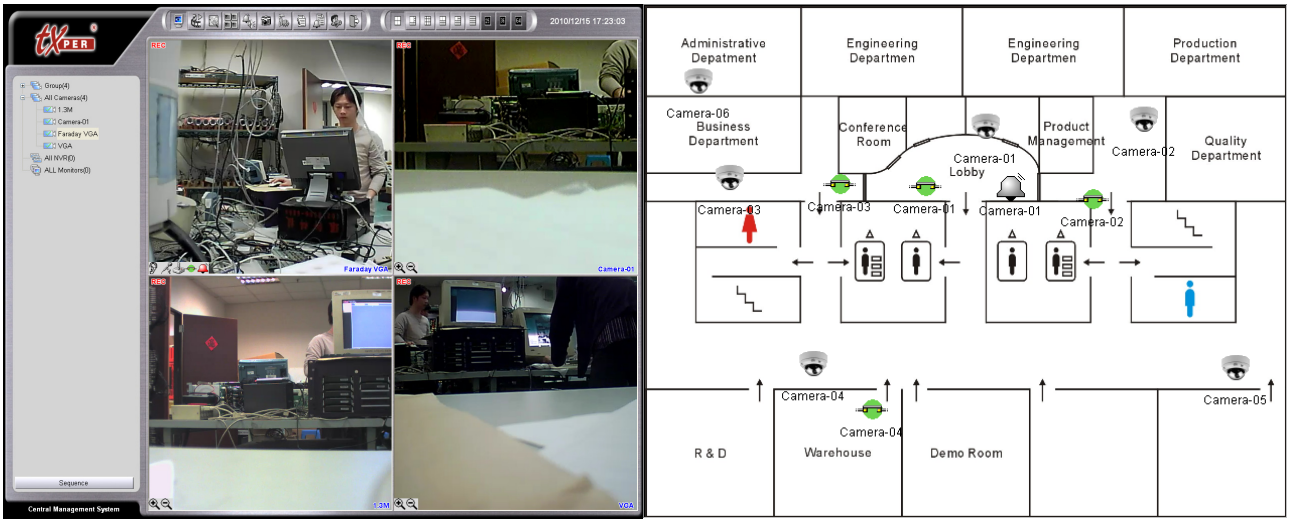
Motion: When the motion detect active the camera icon will display in red as the icon show and the display of the Live-View screen will also jump to display the alarm camera image.

Control I/O: Allow you directly to switch the I/O device on and off such as light.

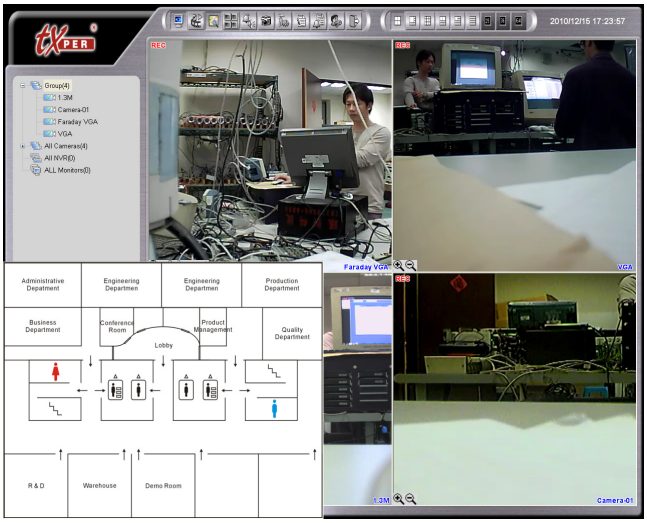
GPIO: Allow you to control the attached nGIPO device – RS485 to extend the I/O control I/O to 4 devices for each nGPIO module.

The E-Map mode has two kinds of the display which due to you might use one monitor or dual monitors for the CMS system.

For Dual Monitors: There will be a separate display of both Live View and E-Map screens.



For One Monitor: The E-Map will become a Quarter-size window of the Live View screen.



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Chapter 10 CMS – Monitor Mode

The Monitor let you to control the nMD (video decoder) on the system easily.

The configuration of monitors, please reference to the CMS Setup chapter.

1. Click from the Main Menu control panel and enter Monitor Mode.
2. Depending on the monitor devices you attached to the CMS system, the monitor controlling menu will auto-adjust the displaying screen size.
3. Click on to enter to setting page.
4. Click and drag the monitor on the screen to re-arrange the order of the physical monitors.
5. For Monitor setup, please refer to Chapter 7: LAN Device--Monitor Setup.
6. Click to start the Sequence mode.

Single Monitor/Dual Monitor

The E-Map can be displayed in quarter-size window under Live-View screen or displayed separately on the second monitor for dual monitor system.

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Chapter 11 RemoteCMS

Getting Started RemoteCMS

1. Login **RemoteCMS**

   Double-click the RemoteCMS

icon to begin the software.

2. Connect

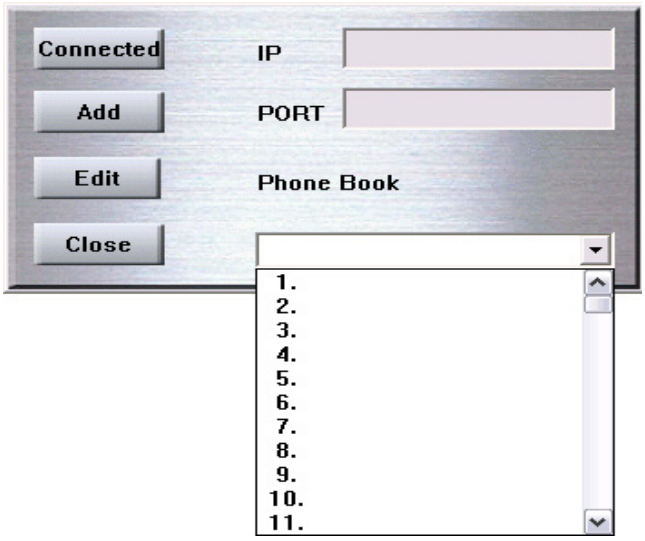
   Input the IP address of the server which you want to connect. The default port is 6741.

Address Book

You can save multiple RemoteCMS server IP addresses (up to 128 entries) to the Address Book.

To save IP address:

1. Scroll down address entries (1-128) and select one entry #, and then click **Edit**.



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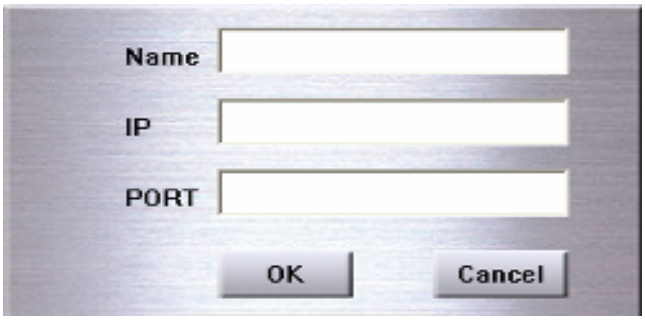
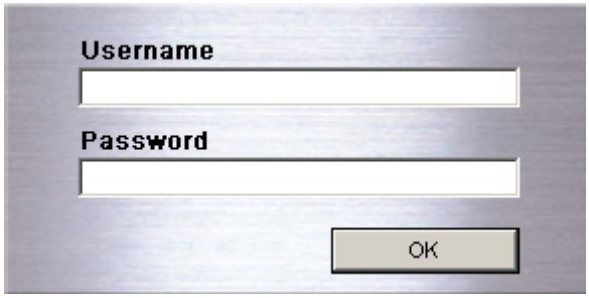
2. Create a name for the RemoteCMS, input IP address and Port for the RemoteCMS. (See above instructions).



3. Click **OK** to save the entry.
4. Click **Connect** to connect.
5. In the future, you may go to the **Address Book** and simply connect to previous saved RemoteCMS without inputting the information again on the main menu.

Login

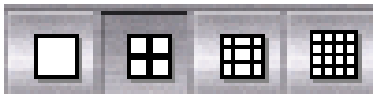
Press the login Icon to open the login menu
Then, there will be a window pop-up. Insert Username and Password to sign in RemoteCMS.



Default Username: admin
Default Password: 99999999

Note: Please go to setup page for further connection setup.

Display Mode



It could be changed 1 / 4 / 9 / 16 screen display mode.

You may double-click on the selected camera to switch to full screen. To return to the original display mode, click on the screen once.

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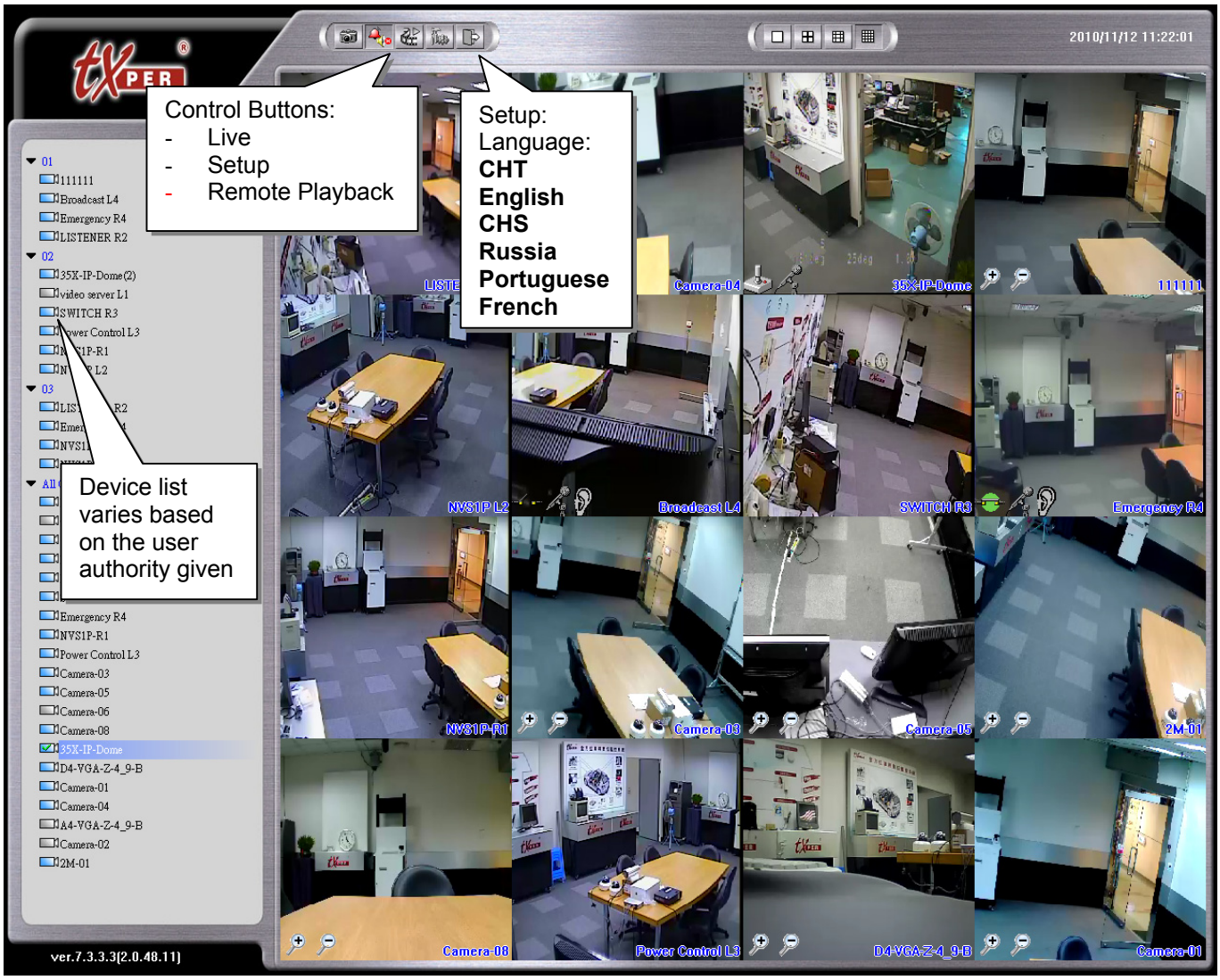
RemoteCMS Screen-Live Mode

Allow you to connect to the CMS server remotely, can even control the PTZ or I/O devices on the web based RemoteCMS application.



You could also right click the mouse button on the channel to open the TTL and PTZ control. It will allow you to open the device like alarm, light, etc,

Snapshot

Click the Icon can snapshot the current channel.

Disable Alarm Notification

Disable or enable the alarm sound.

Exit

Click the Exit to close the RemoteCMS.

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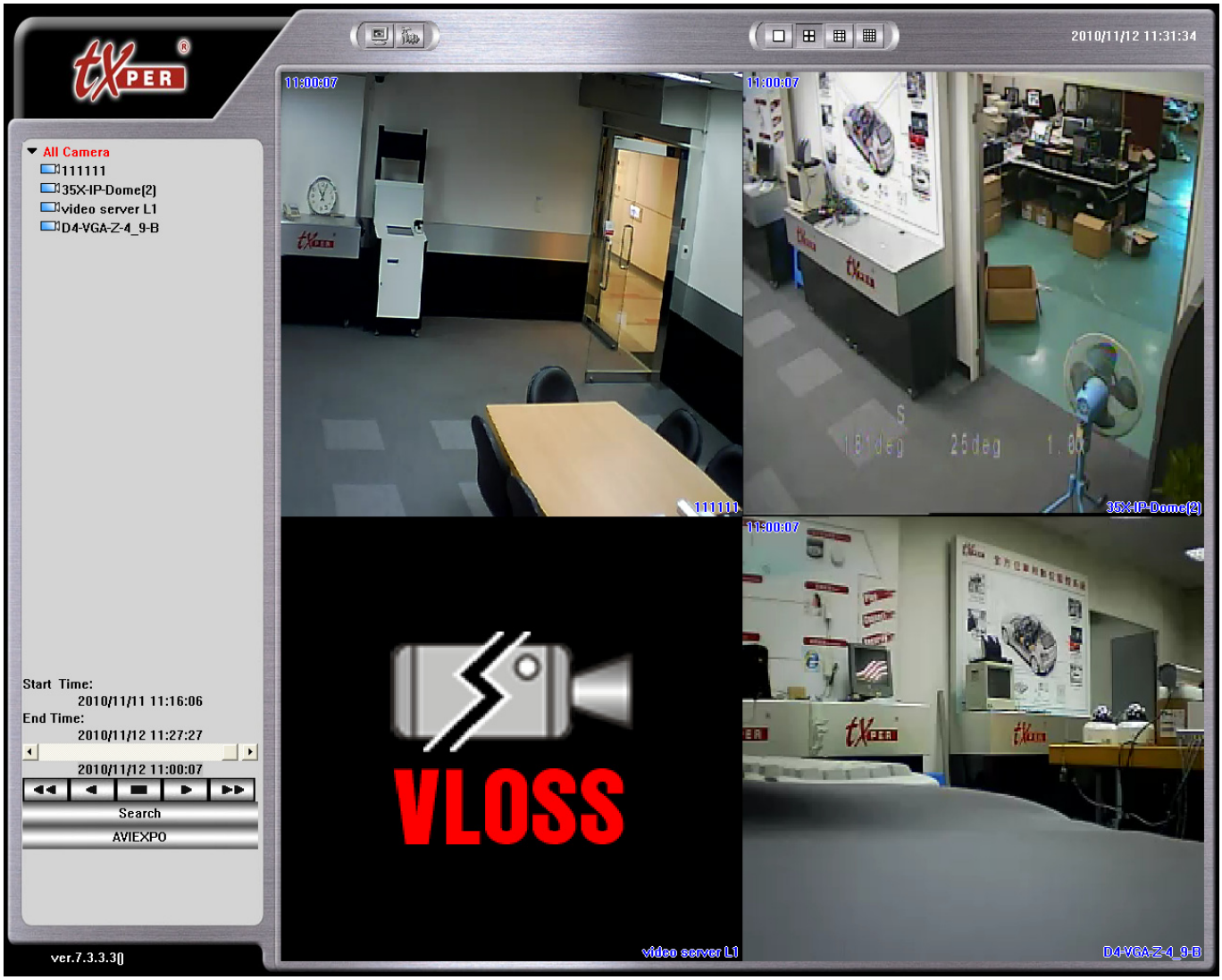
http://www.telexper.com

RemoteCMS Screen-Playback Mode



1. Please click the icon on the RemoteCMS live mode to enter the remote play back mode.
2. Select the date/time of the recorded video/audio by clicking the scrolling arrow
3. Click **Search** button

4. Playback Control

Backward Play

Fast Backward Fast Forward

Stop

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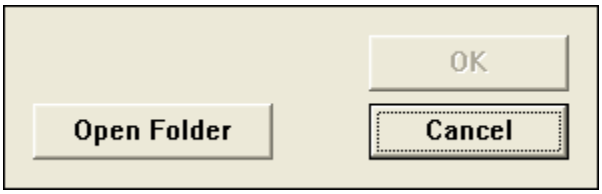
Notes: Because the data of remote playback was gotten from the local CMS site. We have to consider the bandwidth between local and remote side via Internet transmission. We recommend to do remote play back function fewer than four channels at the same time for better video performance.

5. To export and save the footage as AVI format, click AVIEXPO and then select the desired folder.



Select the footage time frame.

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Chapter 12 LVC - Local View Client Settings(Optional)

LVC (Local View Client) software has the same installation, setting and operations as CMS. Please refer to CMS related chapters in this manual.

	Same as **CMS**
System Login	✓
Live Mode	✓
Playback Mode	✓
E-Map Mode	✓
TV Wall	✓

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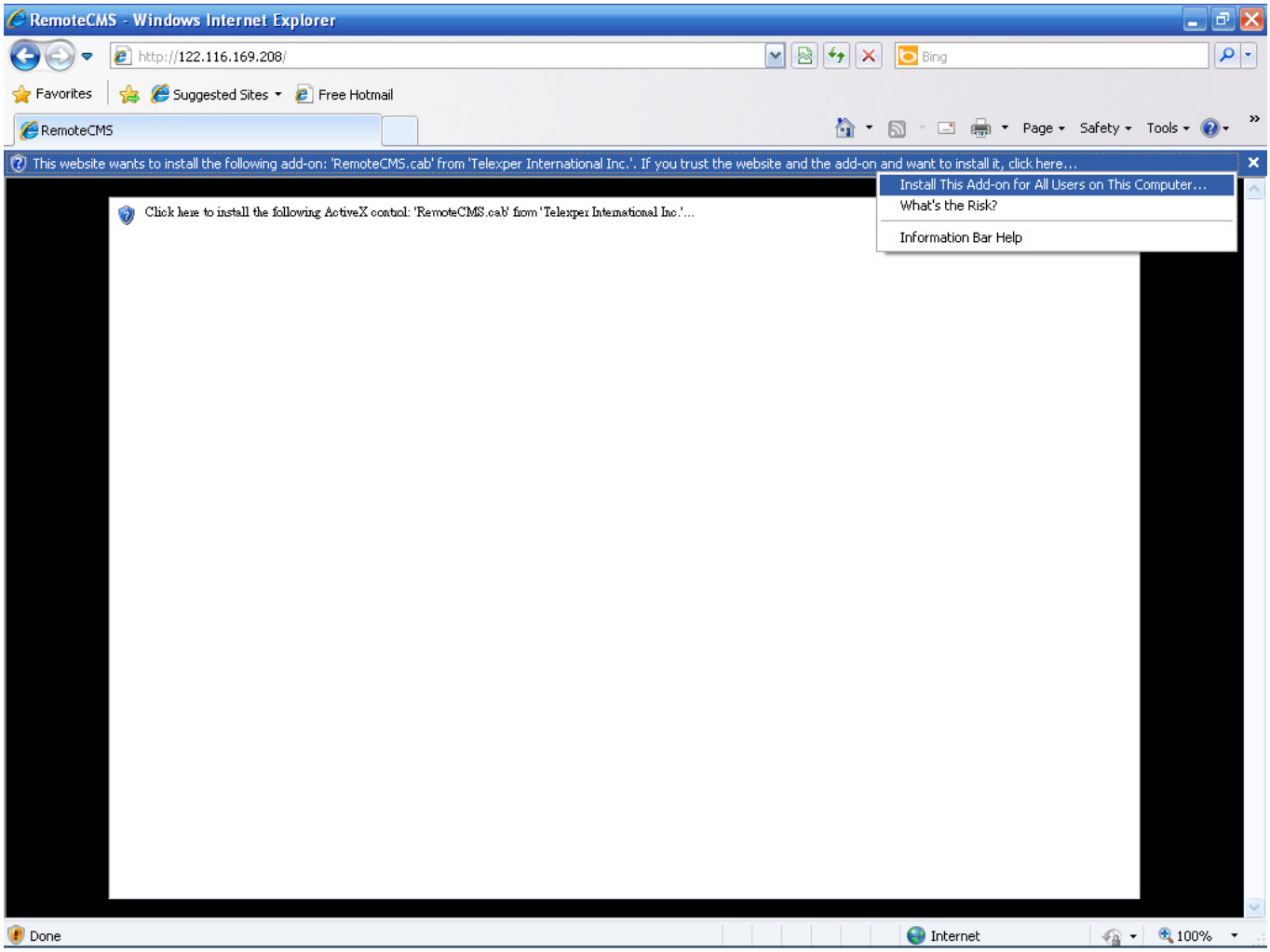
Chapter 13 IE Remote Connection Settings

Directly use the IE browser to connect the CMS

CMS server provide WEB interface for users to use the IE Browser connecting to the CMS server. Users can use IE Browsers to watch and operate the cameras with their settings.
The WEB connection settings list below:

1. Close the setting page after the setting was done, and restarts the IE browser. Input the CMS server WAN-IP which you want to connect, as example http://122.116.169.208 , the system will ask you to install the required ActiveX component, press the **"Install"** few time for each prompt.


RemoteCMS - Windows Internet Explorer
http://122.116.169.208/
Bing
Favorites
Suggested Sites
Free Hotmail
RemoteCMS
Page
Safety
Tools
This website wants to install the following add-on: 'RemoteCMS.cab' from 'Telexper International Inc.'. If you trust the website and the add-on and want to install it, click here...
Install This Add-on for All Users on This Computer...
What's the Risk?
Information Bar Help
Click here to install the following ActiveX control: 'RemoteCMS.cab' from 'Telexper International Inc.'...
Done
Internet
100%

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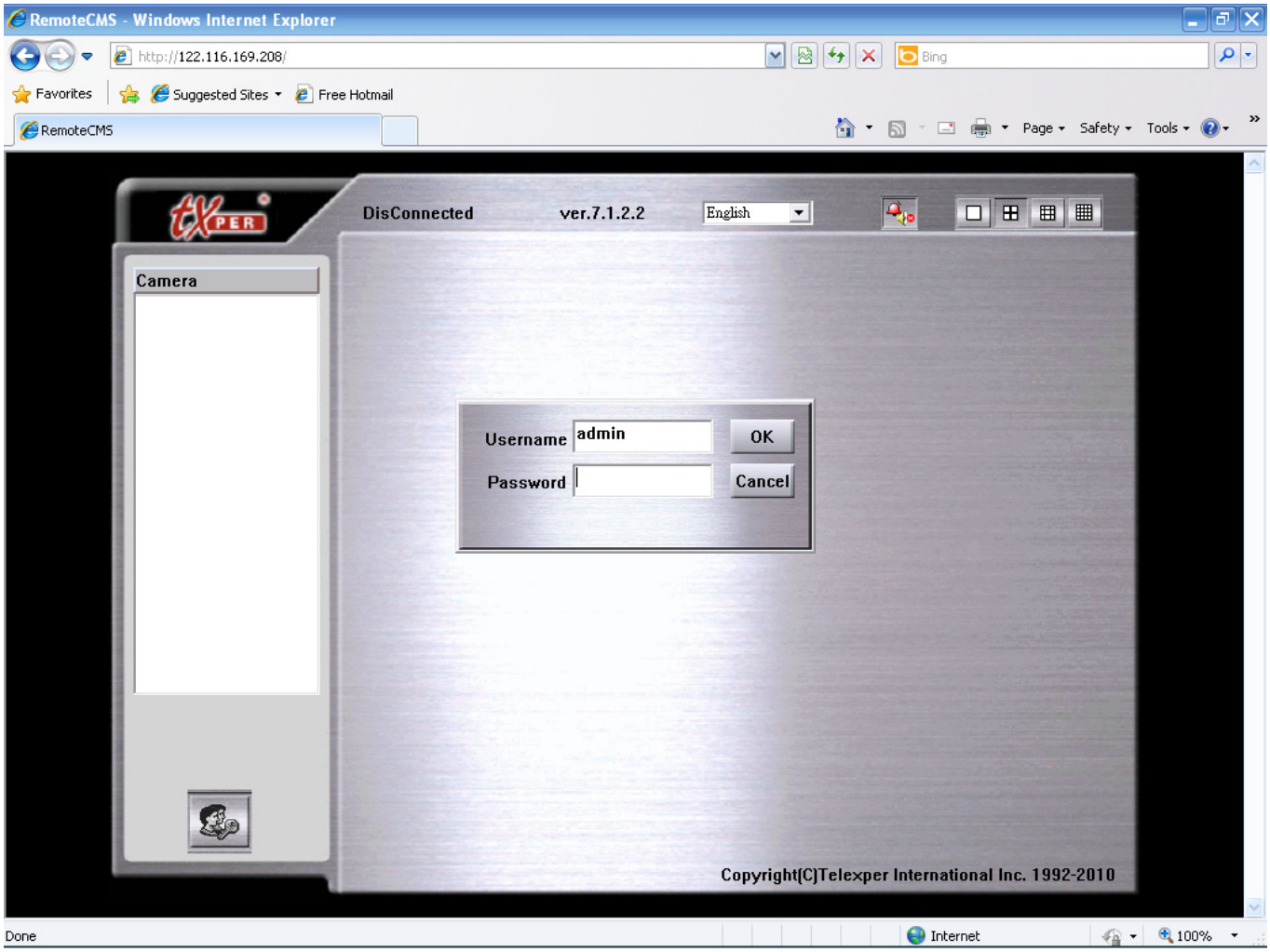
2. Choose the "**Install ActiveX Control**" on webpage, then click the "**Install**" Button to accept the installation.

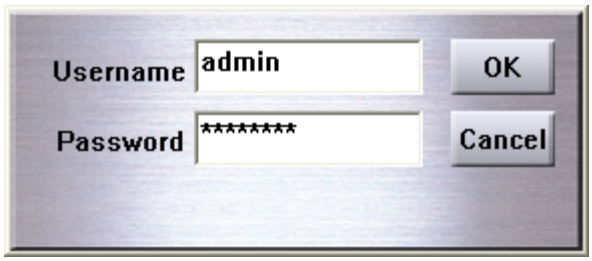
Internet Explorer - Security Warning
Do you want to install this software?
Name: RemoteCMS.cab
Publisher: Telexper International Inc.
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

3. When the installation is installed successfully, the webpage will refresh automatically, and display the login-in dialog box.



4. After the components were be installed complete will pop-up a login window, Please input the user name and password which is allowed to login into your CMS server.

   Default account is admin / 99999999, if login fail please press to retry.



5. It will show the remote cameras on the screen if you login successful.

6. Click on one screen the frame will become green, right click the mouse on the screen to adjust the camera and control alarm out device as light and alarm.

7. **Snapshot**

Click a channel on the live screen and then press **Snapshot** button to save the image as a JPG file.

8. **Zoom in/out**

Click "＋" zoom in and "－" zoom out.

9. Click to enter Remote Playback Mode. The operations for the Remote Playback Mode are the same as CMS Playback Mode. Please refer to prior chapters for detailed instructions.

Appendix A – Technical Support

If you still have questions about our products, you can contact the dealer you purchased from in your country.

Visit our website for more information.

Website: http://www.telexper.com

E-mail : support@telexper.com

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Appendix B – Warranty Information

Telexper International Inc. (TELEXPER) warrants Gigabit POE Hub and Network Commander Station against any defect in material and workmanship, under normal use, for a period of one year from the date or purchase. In the event this product is found to be defective within the warranty period, TELEXPER will, at its option, repair or replace the defective product.

This warranty is void if; a) the product was operated or stored under condition of abnormal use or maintenance; b) if the product is repaired, modified or altered, unless such repair, modification of alternation is expressly authorized in writing by TELEXPER; c) if the product was subject to abuse, neglect, lighting strike, electrical fault, improper packaging, or accident; d) if the product was installed improperly; or e)if the serial number of the product is defaced or missing; f) if the attached warranty card is not presented.

TELEXPER will not, under any circumstances, be liable for direct, special or consequential damage such as, but not limited to, damage or loss of property or equipment, loss of profits or revenues, cost of replacement goods, or expense or inconvenience caused by service interruptions. Under no circumstance will any person be entitled to any sum greater than the purchase price paid for the products.

To obtain warranty service, you should first contact the vendor from whom you purchased your IP-CCTV products. You may be asked to furnish proof of purchase to confirm the products are still under warranty.